

1000

times curious !



Ideas that
spark questions
& questions that
spark ideas

Mumbai 2021



In Partnership with

SYNOPSIS[®]



“100 Times Curious” –Collection of Questions

Release on the occasion of

Science & Engineering Fair of Selected Projects

On

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In support with

Synopsis

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FOREWORD

It is well established in neuroscience that the young brain is constantly completing a picture of the world, its objects, processes and relationships. How does it do so? By asking questions and going after what seem to be hidden mysteries. If curiosity is a trigger questions are it out comes.

But not every child gets an opportunity to give a definite form to its questions or share its curiosities. In fact the poorer a child's economic circumstances are, the higher is the incidence of what we might call stimulus poverty-the lack of stimuli in his or her environment. Material poverty is but one reason for stimulus poverty. Children can grow stimulus-poor from any material circumstance.

Anveshana is on a more platform Agastya International Foundation has created to address this problem. This seven, now 8 years old in Bangalore, completed 6 years in Hyderabad and 4 years in NCR has a built-in opportunity for children to get curious and ask question because it takes them far away from the irregular environs thus providing a state of excitement from which questions will result.

Till now we had not created a process to verify if this questioning is happening while children and their guides engage in their projects. Anveshana 2015 set out to correct this.

What you see in this volume are the questions children asked while doing their projects. It is almost certain not all of them could have been answered. Equally, each is a first step in a voyage of discovery that the child has begun.

AGASTYA INTERNATIONAL FOUNDATION



PROJECTS DISPLAYED IN THE FAIR

CODE	PROJECT NAME	COLLEGE	SCHOOL
AS-M-01	Autonomous Water Rover	Kit Collgege Of Engineering,kolhapur	Private Highschool, Kolhapur
AS-M-02	Disaster Alert For Smart City	Viva Institute Of Technology, Virar	Kai. P. R. Patil Utkarsha Madhyamik Vidyalaya & Jr. College
AS-M-03	Live Action Prosthetic Leg	Sies Graduate School Of Technology Nerul	Adarsh Vidyalaya
AS-M-04	Onion Harvester	Deogiri Institute Of Engineering,a.bad	Shriniketanhighschool
AS-M-05	Viability Of Electric Vehicles	New Horizon Institute Of Technology And Management, Thane	
AS-M-06	Paver Blocks By Plastic Waste	Vpm's Maharshi Parshuram College Of Engineering, Ratnagiri	Smt. Rakhumai Pandurang Palshetkar Vidyalaya, Palshet
AS-M-07	Advanced Iot Home Automation	Lokmanya Tilak College of Engineering, Kopar Khairane	Adarsh Vidyalaya
AS-M-08	Auto-e-waste Disposal Using Ml	Viva Institute Of Technology, Virar	Kai.P.R.Patil Utkarsha Madhyamik Vidyalaya & Jr College
AS-M-09	Smart Gadgets For Blind Humans	Sanghavi College Of Engineering,Nashik	Shree Ram Madhyamik Vidyalaya
AS-M-10	Attendance Sys During Covid-19	K J Somaiya Institute Of Engineering	Rameshwar Vidya Mandir
AS-M-11	Automated Sea Bin	Viva Institute Of Technology, Virar	Kai P.R.Patil Utkarsh Madhyamik Vidyalaya &jr.college
AS-M-12	Free Energy Transport Model	K J Somaiya Institute Of Engineering & Information Technology	Vidynidhivrajlalparekh High School
AS-M-13	Smart Toilet	SIES Graduate School Of Technology, Nerul	NMMC School No 41
AS-M-14	IOT based Smart Sanitizer	LokmanyaTilak College of Engineering, KoparKhairane	R. J. THAKUR VIDYAMANDIR



CODE	PROJECT NAME	COLLEGE	SCHOOL
AS-M-15	SafeBit	PVG college of engineering,Nashik	PVGCOE
AS-M-16	Green Power House	Viva Institute of Technology, Virar	KAI. P. R. Patil Utkarsha Madhayamik Vidyalaya
AS-M-17	Recycling of grey water	VPM's MaharshiParshuram College of Engineering,Ratnagiri	Smt.RakhumaiPandurangPashetkarVidhyalay,Palshet
AS-M-18	Fire Extinguisher By Sound Horn	Sanghavi College Of Engineering,Nashik	Maratha High School, Nashik
AS-M-19	Covid Patient Remote Health MS	Sanghavi College Of Engineering,Nashik	Sarswati Vidyalaya, Niphad & Modern English School Natale, Niphad
AS-M-20	Bridge Monitoring System	SIES Graduate School Of Technology, Nerul	Shri Samarth Vidyalaya
AS-M-21	Paralization Treatment	SIES Graduate School Of Technology, Nerul	
AS-M-22	Covid-19 Fighting Bot	SIES Graduate School Of Technology Nerul	S.S.V. Madhyamic Vidhyalay Ghot
AS-M-23	Multipurpose Robot using Ardui	Lokmanya Tilak College of Engineering, KoparKhairane	Shri Sadguru Vamanbaba Madhy. Vidyalaya, Ghot, Panvel
AS-M-24	Warehouse Automation	Vivekanand Education Society's Institute of Technology,Mumbai	
AS-M-25	Smart lock	KIT College of Engineering, Kolhapur	
AS-M-26	Under Water Image Classification	PVG College of Engineering, Nashik	Dr. Shalinitai Bhorase
AS-M-27	Agro prod shelf life extender	KIT College of Engineering, kolhapur	Yashwantrao Bhaurao Patil Vidhyamandir, Kolhapur



CODE	PROJECT NAME	COLLEGE	SCHOOL
AS-M-28	Touchless SAS for covid-19	K J Somaiya Institute of Engineering & Information Technology, Mumbai	BMC School Nehrunagar Urdu No 1
AS-M-29	Black Spot Detection	Sanghavi College Of Engineering, Nashik	Rangubaijunnare, Delhi Public School
AS-M-30	Automatic santizing machine	LokmanyaTilak College of Engineering , Kopar Khairane	NMMC School 31
AS-M-31	App to enhance mental health.	SIES Graduate School Of Technology, Nerul	Mulund Camp English School
AS-M-32	Reusable Construction Material	Lambton College	Mahadev Shashtri Vidyalaya, Surat
AS-M-33	Drilling using vegetable oil	Deogiri Institute of Engineering, A.bad	
AS-M-34	Gesture Recognition toolkit	Amrutvahini College of Engineering, Sangamnear	R. F. Naik School
AS-M-35	Women's Safety	Ramrao Adik Institute Of Technology	Sainath English High school, Christ academy
AS-M-36	Flight crash investigation	PVG College of Engineering, Nashik	
AS-M-37	e-learning with online exam	PVG College of Engineering, Nashik	Kak saheb Deodhar English Medium School
AS-M-38	Digital Stethoscope	AIKJ Somaiya College	
AS-M-39	Feel-It : A XR based saas (AR Based Learning App)	PVG College of Engineering, Nashik	ZP School Chinchora
AS-M-40	Pokia electric energy	Guru Govind Singh College of Engineering	St. Francis High School, Rane Nagar
AS-M-41	Water treatment system	S.K.Shah Cahwala College of Education (KKM) Kapadwani	Manekalal Desai Kishor Mandir, Kapadwani



1. AUTONOMOUS WATER ROVER

- 1) What does it mean by Sustainable development Goals?
- 2) What are the UN specified SDGs?
- 3) Which SDG are we targeting?
- 4) What is the main goal of the selected SDG?
- 5) Are there any other SDGs that we will be also focusing on?
- 6) What is meant by Problem Domain?
- 7) What is our Project's problem domain?
- 8) What are the sub-problems that we will be solving?
- 9) What is the Problem Statement?
- 10) What is water pollution?
- 11) What are the major causes of water pollution?
- 12) What are the effects of water pollution on environment?
- 13) How does it affect human?
- 14) Why is plastic a problem?
- 15) Since when plastic is used in industry?
- 16) How does plastic pose a threat to water reservoirs?
- 17) How does it affect water properties?
- 18) How does it affect aquatic life?
- 19) Does plastic pollution have any effect on human?
- 20) What percentage of plastic is thrown into ocean every year?
- 21) What percentage of plastic is recycled every year?
- 22) What is recycling process?
- 23) What are the methods of recycling plastic?
- 24) What is meant by Autonomous?
- 25) What are The Advantages of Autonomous Rover?
- 26) What are The Disadvantages of Autonomous a. Rover?
- 27) What type of material we should use instead wood?
- 28) What type of crushing blades could we use?
- 29) What are the benefits of crushing blades?
- 30) What we should to take give it charge?
- 31) What are the main function of rover?
- 32) What are the main functions of ultrasonic sensors?
- 33) What are the main functions of servo motors?
- 34) What are the main function of crushing machine?
- 35) What are the main function of GPS?
- 36) How do we operate rover?
- 37) How do we collect water samples?
- 38) Why are we collecting water sample?
- 39) How do we come to know pollution level of water?
- 40) Why does the Rover need a GPS System?
- 41) Are there any alternative for servo motors?
- 42) Are there any alternative for building materials?
- 43) Is it possible to do it on a large scale?
- 44) What is its weight?
- 45) What is its length?
- 46) What is its height?
- 47) How much plastic can we store in a rover?
- 48) How do we give it battery supply?
- 49) What is battery life?
- 50) How much time do we need to charge it?
- 51) What is Arduino?
- 52) What are the main functions of Arduino?
- 53) Can Arduino make machines autonomous?
- 54) Which language is used to code Arduino?
- 55) How many plastic is manufactured in India?
- 56) Which instruments are we using to detect object?
- 57) How can we detect the location of rover?
- 58) In what way we collect plastic waste?
- 59) How crushing mechanism works?
- 60) How many batteries are used to power the propellers?
- 61) What is the power of batteries used for electronics? (In volts)
- 62) Which force is helps to float rover on water?
- 63) How to increase force of buoyancy?
- 64) How to identify whether water is pure or not?
- 65) What is the Ph of water?
- 66) Which is the most harmful plastic?



- 67) How many microplastic does we consume in a day?
- 68) Is plastic main reason of death of aquatic animals?
- 69) How do we operate whole crushing mechanism?
- 70) What are the benefits of checking of water samples?
- 71) Does it work while raining?
- 72) If we use this in seawater what changes we have to do in its structure?
- 73) How much supply Arduino is able to give?
- 74) How much time you given to complete the Rover?
- 75) How many motors are present in the rover?
- 76) How much maximum speed of the Rover
- 77) How much money did you invest in this prototype?
- 78) How many blades are there in a crushing mechanism?
- 79) What is its range ?
- 80) How many water samples can we collect?
- 81) How should we come to know where the Rover is?
- 82) What are the main functions of the conveyor mechanism?
- 83) How can we consider that water is polluted?
- 84) How much time does it need to complete proper crushing of a plastic bag?
- 85) How did you choose this project?
- 86) Which online material did you refer?
- 87) Will it be helpful in real world?
- 88) How long will it take to clean a lake?
- 89) What is cloud server?
- 90) How do solar panels work?
- 91) Why are we not including solar panels in prototype?
- 92) What will happen after analysis is done on water samples?
- 93) Which chemicals must not be present in water?
- 94) Can this rover be used for cleaning chemicals in water?
- 95) How is this rover better than existing models?
- 96) What is the future scope ?
- 97) How are all the electronics protected from water?
- 98) Where will we test the rover?
- 99) What are the names of the electronic parts?
- 100) What type of crushing blades could we use?



2. Disaster alert for smart city

1. What do you mean by urbanization?
2. What are the various effects in cities due to urbanization?
3. What is migration?
4. What are the effect of migration in the cities?
5. How the cities are getting affected due to increasing population?
6. What are the various elements include in the development of smart cities?
7. What are the types of disasters occurring in our country?
8. How can we prevent ourselves from natural disasters?
9. What are the main reasons which leads to natural disasters?
10. Which sections we are including in our project?
11. How to provide power supply to the project?
12. What are the types of power supply?
13. What is DC and AC supply?
14. What is flood management?
15. What is breadboard?
16. How the breadboard works?
17. How many pins are present in breadboard?
18. What is PCB?
19. What are the types of PCB?
20. How the PCB works?
21. What is Arduino microcontroller?
22. What is basic principle of microcontroller?
23. How many types of Arduino microcontroller?
24. What are the various functions of Arduino microcontroller?
25. What is the working of Arduino in our project?
26. What are the libraries in Arduino?
27. Can we use other microcontroller device instead of using Arduino?
28. How many input output pins are present on Arduino?
29. What is difference between analog input and digital input?
30. What do you mean by sensors?
31. What is Ultrasonic sensor?
32. On which principle Ultrasonic sensor work?
33. What is the range of Ultrasonic sensor?
34. How can we measure distance between objects?
35. How many pins are present in ultrasonic sensor?
36. What are the advantages and application of ultrasonic sensor?
37. What is LCD display?
38. Why LCD called 16X2 Display?
39. Is there any limit of character to display on alphabet?
40. How many pins are present in LCD display?
41. How LCD Display receives input?
42. What are the application of LCD display?
43. What is earthquake management?
44. What is accelerometer sensor?
45. How the accelerometer sensor works?
46. What are the advantages of using Accelerometer sensor?
47. What is buzzer?
48. What is principle of buzzer?
49. How the buzzer produces sound?
50. How you got an idea about women safety system?
51. What is Capacitive Touch Sensor?
52. How the capacitive Touch sensor works?
53. What are the applications of capacitive touch sensors?
54. What is LED?
55. How does LED Works?
56. Why LED requires to work with resistors?
57. What do you mean by Road crossing system?
58. How the handicap person and children's will safely cross the roads?
59. What is smart city?
60. How smart city will help other peoples?
61. What we are implementing in smart city?
62. Why we are using smart street lights?
63. How street lights will work?
64. What is IR sensor and LDR?
65. What is theory behind IR sensor?



- 66. If IR is already in project then why we are using LDR?
- 67. What is basic principle of LDR?
- 68. How IR sensors will detect the obstacle?
- 69. What is range of IR sensors?
- 70. Why IR sensors are not working in sunlight?
- 71. Can IR sensor detect Human?
- 72. What are the Applications of IR sensor?
- 73. Why we are implementing Traffic light control system?
- 74. How IR sensor will Detect the High density Traffic lane?
- 75. How the Traffic signal can be Managed?
- 76. What are the main advantages of traffic light control system?
- 77. What if there is an ambulance?
- 78. Can we Create separate road for ambulance/emergency services?
- 79. What is waste monitoring?
- 80. How waste department will find the Location of dustbin?
- 81. Can we divide dustbins into three levels?
- 82. How our parking system is different from others?
- 83. How IR sensor will work in parking System?
- 84. What is servo motor?
- 85. What is principal of servo motor?
- 86. What are the types of servo motor?
- 87. Which type of servo motor we are using?
- 88. Where we are using servo motor?
- 89. What message we can display on LCD for parking?
- 90. What is main objective of these project?
- 91. What are the new technologies are being used in this project?
- 92. What are the benefits of this city?
- 93. What is approximate cost of project?
- 94. How can we modify this project?
- 95. What is machine learning?
- 96. Is Arduino being easy to code?
- 97. What we need to learn to code Arduino?
- 98. Which is basic and easy coding language?
- 99. Which language Arduino uses for coding?

100. What are different types of coding languages?



3. Live Action Prosthetic Leg

1. What is Force?
2. What is the difference between mass and weight?
3. State Newton's three laws of motion.
4. When is acceleration produced in a body?
5. What is the gravitational force?
6. Acceleration due to gravity is the same for all objects regardless of their masses. True or False?
7. What is the value of the gravitational constant (G)?
8. What is the difference between Distance and Displacement?
9. What are the SI units of Force, Mass, and Weight?
10. How does an Ultrasonic sensor or a sonar work?
11. Give one day to day application of proximity sensors.
12. Give one example of the use of a Gyroscope.
13. What type of sensor is used in TV and its remote?
14. What are SolidWorks used for?
15. What is the advantage of using SolidWorks or other 3D modelling software?
16. Why is drawing / Designing an important part of manufacturing (making) a product?
17. What are the factors to consider while designing a product?
18. What is the gait cycle?
19. What is the joint between our foot and our shin (lower leg) called?
20. What is meant by the term “prosthetics”?
21. Why are prosthetics important?
22. Who needs prosthetics?
23. What is the difference between conventional prosthetics and microchipped prosthetics?
24. What factors should be considered important while designing a prosthetic leg?
25. Are there any other alternatives besides prosthetics for amputees?
26. Why are prosthetics so expensive?
27. What are the different stages of a normal gait cycle?
28. What is the advantage of computer-aided drawing over traditional sketches?
29. What new technologies are being used in the project?
30. What do you mean by sensors?
31. How many types of sensors are being used in the projects?
32. What types of smart solutions have been taken through the project?
33. Why have you selected this project?
34. What is the main motive of this project?
35. What are the advantages of this technology?
36. How is it beneficial for the society?
37. What is Arduino?
38. How many types of Arduino do you know?
39. What is the reliability of this idea in real life?
40. On what principle does Live Action Prosthetic leg work?
41. Why are we using computer algorithms?
42. What do you mean by dynamics?
43. What is the working of a damping system?
44. Where have you used metals in your project?
45. What are the main components used in a battery?
46. Why is there a need of gait cycle?
47. What is the main purpose of gait cycle prediction?
48. How is water level monitoring reliable in real world?
49. What are the main advantages of dynamic response?
50. What is damping?
51. How is it different from normal prosthetic leg?
52. Why is there a need dynamic response?
53. How is Live Action Prosthetic leg going to help the upcoming generation?
54. What do you mean by Microcontroller?
55. How is it going to reduce human effort?
56. What is the main objective of Live Action Prosthetic leg?



57. What is the cost of this project and how much will it cost for implementing it in real world?
58. What are the employment opportunities for the upcoming generation?
59. How much is it going to cost when being implemented in real word?
60. What are the different types of prosthesis?
61. How are they being classified
62. Which are the best types?
63. How is their price estimated?
64. What do you mean by socket?
65. What are the different types of sockets?
66. What is the basic principle of walking?
67. What do you mean by ground reaction?
68. How does ground reaction force effect walking?
69. Why do we need ground reaction force?
70. What is the basic principle of a lithium-ion battery cell?
71. What do you mean by cell?
72. How is power management being implemented in Live Action Prosthetic leg?
73. What electronic components do you'll know?
74. What is a sensor?
75. What is ultrasonic sensor?
76. What is the principle of ultrasonic sensor?
77. Why do we use ultrasonic sensor?
78. How is your prosthetic leg beneficial for society?
79. Why are we using computer algorithms?
80. What is breadboard?
81. Is this type of Live Action Prosthetic leg implementation done elsewhere across the globe?
82. Can we use this idea in India?
83. Is there any kind of modification needed?
84. Is this cost efficient?
85. What is IR sensor?
86. How does IR sensor work?
87. How do IR sensor detect obstacles?
88. What is the basic principle of IR sensor?
89. Where are IR sensors used?
90. What is the maximum range of IR sensors?
91. Which sensor is used to detect obstacles?
92. How are you helping the society through this?
93. How can we use this project in the real world?
94. Is there any special kind of requirement of smart parking system?
95. Which type of sensors are being used in your project?
96. Why is there a need of having a smart prosthesis?
97. What do you mean by soldering?
98. How is CAD/CAM useful in your project?
99. What are the different manufacturing methods used?
100. How are the different parts assembled ?



4. Paver Blocks by Plastic Waste

01. What is meant by fine aggregates?
02. What is meant by coarse aggregates?
03. What is meant by paver block?
04. Why cement is used in regular paver block?
05. What is meant by ceramic waste?
06. What is the compressive strength for cement?
07. What is compressive strength?
08. How is compressive strength calculated?
09. What is meant by fillers?
10. What is meant by binders?
11. What is the estimated price of the paver block?
12. Is this project eco friendly?
13. What is the procedure to make plastic binding paver block?
14. In what amount are the aggregates in this project?
15. What would be the conclusion of this project?
16. Which shape of mould is preferred more?
17. How is testing for the block conducted?
18. What are the standard dimensions of the mould?
19. Which type of plastic is preferred for making plastic binding paver block?
20. If cement is replaced by plastic in paver block, will it affect the life of the block?
21. What would be the estimated life time for plastic binding paver block?
22. How are aggregates differentiated?
23. What are the dimensions for sieving?
24. Will the replacement of cement affect the cost of paver block?
25. Will plastic binding paver economical?
26. Where can we use plastic binding paver block?
27. Can plastic binding paver block be used in high traffic area?
28. What is the binding material used in regular paver block?
29. Is water needed while manufacturing plastic binding paver block?
30. Will the melted material stick to the mould?
31. What precautions are taken for not allowing the melted material to stick?
32. What are the constituents used?
33. Can plastic be replaced by rubber?
34. Will the change in proportion of sand and aggregates affect the properties?
35. Will the proportion affect the compressive strength?
36. Can tiles be replaced by these paver block?
37. Which types of gases are released while melting the plastic?
38. Where is used plastic collected from?
39. What is the duration for making one paver block?
40. If we immerse this paver block for certain period will it affect its properties?
41. What is the difference between constituents used in regular and plastic binding paver block?
42. How will you convince consumer on buying these product?
43. What is the cost for this project?
44. Which type of difficulties you faced during manufacturing of this paver block?
45. What is meant by curing?
46. Which type of curing is required for this paver block?
47. What is the curing time required for plastic binding paver block?
48. What are the advantages and disadvantages of plastic binding paver block?
49. Why are aggregates used in its manufacturing?
50. Will the use if aggregate changes the properties of paver block?
51. Can paver block be prepared only by cement?
52. Why are fillers used?
53. Can we use this paver block in garden areas?
54. What is the average melting point for plastic?
55. Can cement be used partially in plastic binding paver block?



56. Which type of paver block is economical?
57. What is purpose of using sulphur grains?
58. Is water curing needed for plastic binding paver block?
59. Which type of pollution happens during manufacturing of plastic binding paver block?
60. Is this project comprises fully waste plastic material?
61. Which ingredients are easily available?
62. Manufacturing of which type of paver block creates less pollution?
63. Which paver block will bear maximum load?
64. Manufacturing of which paver is energy efficient?
65. Manufacturing of regular paver block leads to which type of pollution?
66. Which machines are used to carryout the results?
67. Can the amount of melted plastic be increased in making paver block?
68. Can this project be implemented in large scale?
69. Is plastic binding paver block seasonable?
70. What can be done to make paver block anti-fungal?
71. What is the main objective of this project?
72. What is the cost of this project and how much will it cost for implementing it in real world?
73. Does this project create any employment opportunities in future?
74. Does this project requires skilled supervision?
75. What precautions should be taken during manufacturing of plastic binding paver block?
76. Does government provide any subsidies for these types of eco-friendly projects?
77. What are the challenges one need to overcome while implementing this project in large scale?
78. How are proportions determined?
79. Do you referred any references while carry out of this project?
80. What challenges you faced while carrying out this project?
81. What is the reason behind selection of this project?
82. Which tests you will be performing?
83. Which machine is used to carry out compressive test?
84. What is water absorption test?
85. How is finishing done for paver block?
86. What is compression test?
87. Can these project be implemented in rural areas?
88. Which machines are needed while implementing this project in large scale?
89. How are plastic binding paver block anti-fungal?
90. Will the less water absorption capacity affect the anti-fungal properties for block?
91. Will implementation of this project in rural area boost rural economy?
92. In which manner does this project contribute in making nation pollution free?
93. How will these block be economical?
94. Can we completely use plastic binding paver block in future as a step towards eco-friendly environment?
95. Can we recycle discarded paver block?
96. Is this project energy efficient?
97. Can further additions be done in this project to make it more efficient?
98. Do you have any further plans to implement this project in future?
99. Where is lateriate dust collected from?
100. How can we make this project more asthetic?



5. Smart Toilet

1. Will the filtered water be used for watering plants?
2. How does IOT work ?
3. What is UN SDG?
4. What is an automated system?
5. What are sensors?
6. Is oven an example of IOT?
7. How does automatic hand wash work?
8. What is an ultrasonic sensor?
9. What is ammonia?
10. What is a breadboard?
11. What is R-pi?
12. What is the main motive of this project?
13. Where all can the project be implemented?
14. What do you mean by Microcontroller?
15. What technologies are used?
16. How does IOT work?
17. How many components are we using?
18. How is it beneficial for the society?
19. What is Arduino?
20. What is the total cost of the project?
21. Is it cost efficient?
22. How does a breadboard work?
23. What technologies are used in web development?
24. What is HTML?
25. What is CSS?
26. What is the back end?
27. What is the front end?
28. What is the difference between front end and back end?
29. What technologies are used in the front end?
30. What technologies are used in the back end?
31. Will it be easy to implement in the real world?
32. What are examples of IOT?
33. Is there an existing system?
34. How is our system better?
35. What are the modifications?
36. Which all countries have smart toilets already?
37. Is it feasible to implement in India?
38. What does a temperature sensor do?
39. How many types of sensors are there?
40. What is a PIR Sensor?
41. What is an ultrasonic sensor?
42. What is a flow meter?
43. What is the hall effect?
44. What is a smell sensor?
45. How does Raspberry Pi act as a single computing board?
46. What is a QR sensor?
47. What is Microcontroller Driver IC?
48. What is a water motor ?
49. How does a water motor work?
50. How will these components be interfaced with R-pi?
51. What is the purpose of a water filter?
52. Why are we using solar panels for energy?
53. How is it better than batteries?
54. What will be the power consumption of the unit?
55. What is a relay board used for ?
56. How much water will we use for the system?
57. Will the flush use water efficiently?
58. What is an alternative to a QR sensor?
59. How will someone without their phone access the QR code?
60. What type of wires will be used for the interfacing ?
61. What are male to male wires ?
62. What are male to female wires?
63. How many wires will we require ?
64. What is Node MCU?
65. What is its purpose?
66. Why are we using it in our project?



67. What is an alternative to Node MCU?
68. What is a Database used for?
69. How will we store our information in the database?
70. What is Google Cloud Firestore?
71. What are the different types of databases used?
72. Who all can access the information?
73. Is there a janitor?
74. How will the system be fully automated?
75. Who will manage the website?
76. If there is a problem, whom will it be reported to?
77. Will there be any regular checks for cleanliness?
78. Why is the project called Smart Toilet?
79. What is a smart system?
80. When is a system called smart technically?
81. Why are we making a website?
82. What if there is no network to access the website?
83. Can we use something else instead of a website?
84. Can we use an APP instead of a website?
85. Who all can access the website ?
86. Will we provide instructions for using the system?
87. What is Python?
88. What is High level language?
89. Why is it called Python?
90. Why are we using Python?
91. Is there any alternative for Python?
92. How will we resolve any technical issue?
93. How big is the toilet cabin?
94. What is a prototype?
95. How long will it take to complete the project?
96. What is LED?
97. How does LED work?
98. What type of power supply will be used?
99. What is the cost of each component?
100. How will it help in COVID?

101. How will sanitation be maintained at all times?



6. IOT based Smart Sanitizer

1. What do you mean by sanitizer?
2. Which technology are being used in the project?
3. What is IoT?
4. Who is the inventor of IoT?
5. Name some applications of IoT?
6. How many types of Arduino do you know?
7. What is Arduino UNO?
8. Which Microcontroller used in Arduino UNO?
9. Which Software is used for Arduino UNO?
10. Which language does Arduino use?
11. What is the full form of IR?
12. What is the range of IR sensor?
13. What is IR sensor?
14. What is the application of IR sensor?
15. What is the working principle of IR sensor?
16. Which IC is used in IR sensor?
17. Can IR sensor detect human?
18. Does IR sensor work in dark?
19. Is Infrared visible to human eye?
20. Can IR sensor detect water?
21. What is Sensor?
22. Name some types of sensor that you are using in your project?
23. What is the full form of LCD?
24. What is LCD?
25. Who invented LCD?
26. What are the application of LCD?
27. How many pins are there in LCD?
28. What is Buzzer?
29. How many terminals does buzzer have?
30. How does a buzzer sound?
31. What is ultrasonic?
32. What is the range of Ultrasonic sensor?
33. What is Ultrasonic sensor?
34. What are the applications of ultrasonic sensor?
35. What is the working principle of ultrasonic sensor?
36. Can Ultrasonic sensor detect water?
37. What is Human audible range?
38. Can humans hear ultrasonic sound?
39. What is the full form of IC?
40. What is IC?
41. Why we use IC?
42. Which IC are we using?
43. What is L293D Motor driver IC?
44. How many pins are there in L293D Motor Driver IC?
45. What is Bolt Wi-Fi module?
46. Which module consists in bolt WIFI module?
47. What ESP8266?
48. How much voltage require for Bolt WIFI module?
49. How to power Bolt WIFI module?
50. Which colors LED consists Bolt WIFI module?
51. What is function of mini water pump?
52. How much voltage require for mini water pump?
53. How much distance can a mini pump pull water?
54. What is use of mini water pump in our project?
55. What are the types of circuit boards?
56. What is use of breadboard?
57. What is dotted PCB?
58. What is full form of PCB?
59. Which material are used in PCB?
60. What is the use of PCB ?
61. Which are the different applications of PCB?
62. What is soldering?
63. What is required for soldering?
64. What is Soldering iron?
65. What is Solder?
66. How are you going to implement IOT based smart sanitizer in



- real world?
67. How is it different from normal sanitizers?
 68. What are the benefits of iot based smart sanitizer?
 69. Which new technologies are being used in the project?
 70. Which material we are using for sanitizer bottle?
 71. Why have you selected this project?
 72. What is the main motive of this project?
 73. How is it beneficial for the society?
 74. Where can we use this idea?
 75. Will this idea require any special space to implement?
 76. Is this project are cost efficient?
 77. What type of power supply is being used here?
 78. What do you mean by resistors?
 79. What are the different types of resistors?
 80. How are the resistors value being classified?
 81. How is IOT being implemented in smart sanitizer?
 82. How is smart sanitizer beneficial for society?
 83. What do you mean by Smart sanitizer tank level monitoring?
 84. Why are we using smart sanitizer level monitoring?
 85. What are the main components used in sanitizer level monitoring?
 86. What is bidirectional visitor counter?
 87. Why is there a need of bidirectional visitor counter?
 88. How are you going to implement bidirectional visitor counter in real world?
 89. What is the main objective of iot based smart sanitizer?
 90. How many Arduino we are using in our project?
 91. Why we use 2 Arduino in our project?
 92. Why we use breadboard in first stage?
 93. What is Jumper wire?
 94. What is use of Solder flux?
 95. What is size of tank in level monitoring?
 96. How upload Code to the Arduino?
 97. Is Arduino IDE Software free to use?
98. What is the size of sanitizer bottle?
 99. Which PCB we are used in our project?
 100. What is the cost of this project?



7. RECYCLING OF GREY WATER TRETMENT

1. What is the name of your project ?
2. Why have you selected this project ?
3. What is the aim of your project ?
4. Which materials are used in vermi-bio sand filter ?
5. What is the meaning of grey water ?
6. What is the sources of collecting grey water ?
7. What is the meaning of black water ?
8. Can we use black water in vermi-bio sand system?
9. What is the function of earthworms in vermi-bio sand filter ?
10. Why do you use activated carbon in filter ?
11. Why we can't use black water in filter for filtration ?
12. How could you check that water is purified ?
13. Which test you used to check the water is purified or not ?
14. Can we use this project in big cities ?
15. How does the filter work ?
16. What is the full form of COD ?
17. What is the meaning of BOD ?
18. What is the main object of our project ?
19. What is the cost of your project ?
20. Where did you get all this material use in this filter ?
21. How to do DOtest ?
22. What is the uses of purified water ?
23. Would it work if we did not use the activated carbon in this filter ?
24. What is the full form of DO ?
25. How much water can we recycle in this filter at a time ?
26. What is the effect of grey water on environment ?
27. Is their specific depth for each material use in the filter ?
28. Is it possible to move this filter from one place to another ?
29. How much time required for purifying the grey water ?
30. Why is it necessary to do all the test for grey water ?
31. What is the benefits of recycling grey water ?
32. What is the meaning of turbidity ?
33. How turbidity is measure ?
34. What is the unit of turbidity ?
35. What is the full form of BOD ?
36. How BOD is measure ?
37. What is the unit for BOD ?
38. What is the meaning of COD ?
39. How COD is measure ?
40. What is the unit of COD ?
41. How to check the pH of grey water ?
42. What is the unit of pH ?
43. What is the full form of pH ?
44. What is the limit of pH value ?
45. When we called water is acidic ?
46. When we called water is neutral ?
47. When we called water is alkaline ?
48. What can pH be measure with ?
49. Why do we test for project ?
50. What is the formula of pH ?
51. Can pH be negative ?
52. What is the pH of normal water ?
53. Why pH in water is important ?
54. Is pH above 14 possible ?
55. How do you test alkalinity ?
56. What are the different types of alkalinity ?
57. What is the normal range of alkalinity ?
58. What is alkalinity test used for ?
59. Is alkalinity good or bad ?
60. What are the causes of alkalinity ?
61. What is the difference between pH and alkalinity ?
62. What is the meant by alkalinity ?
63. Why total alkalinity is important ?
64. What is the unit of alkalinity ?
65. What is the another word for alkalinity ?
66. Is alkaline acidic or basic ?



67. What are the short form for total solid ?
68. What is the unit of total solid ?
69. What are the types of total solid ?
70. What is the meaning of total solid ?
71. How do you test total solid in water ?
72. What is the meaning of DO ?
73. What is the unit of DO ?
74. What is the meaning of chloride ?
75. What is the unit of chloride ?
76. How to measure chloride ?
77. What are the methods of determinations of chlorides ?
78. Why earthworms are use in the filter ?
79. What is the main role of earthworm in the filter ?
80. From where you get the earthworms ?
81. How many earthworms are used ?
82. Which type of soil you use ?
83. What is the depth of the soil ?
84. Why we use sand ?
85. Which type of sand we used ?
86. What is the work sand ?
87. From where you get the sand ?
88. What is the depth of sand ?
89. What is the coconut coir ?
90. What is the use of coconut coir ?
91. Is coconut coir is essential ?
92. Which size of aggregate you used ?
93. Where you get the gravel ?
94. Which type of plumbing material you used for your filter model ?
95. What is the uses of purifying water ?
96. Is grey water dangerous ?
97. How long can you store grey water ?
98. How grey water can store ?
99. What is the effect of grey water on human health ?
100. What is the use of charcoal ?



8. Covid Patient Remote Health MS

1. What is Covid- 19 fighting Bot?
2. What is software ?
3. What is chatbot ?
4. What are the features of the bot ?
5. What are the functions of the bot ?
6. What are applications of the bot ?
7. How can it help people ?
8. What is covid -19 ?
9. What are the symptoms of the virus ?
10. Different stages of the bot ?
11. Where is it going to be implemented ?
12. Number of languages supported by the bot ?
13. How is the bot created ?
14. How will the bot perform ?
15. Working on the bot ?
16. What is screening ?
17. What is covidtracker ?
18. What do you mean by a tracker?
19. What is Rasa ?
20. What is Rasa X ?
21. Features of rasa ?
22. How can we make bot using Rasa ?
23. What are the prerequisites ?
24. What is Rasa NLU ?
25. What is the role of the nlu ?
26. What is the NLU ?
27. Use of NLU ?
28. Applications of NLU?
29. What all things rasa NLU contains ?
30. What is intent ?
31. What is an entity ?
32. What is Rasa core ?
33. What is the role of rasa core ?
34. What are actions?
35. What are custom actions ?
36. What is the role of custom actions ?
37. What are stories in rasa ?
38. What are the commands used to run the bot ?
39. What is a database ?
40. Use of database ?
41. Applications of the database ?
42. What is an API ?
43. Uses of API ?
44. Applications of API ?
45. What is the full form of API?
46. What is the full form of ML?
47. What is machine learning ?
48. What is python ?
49. What is UN SDG?
50. Full form of UN SDG?
51. What is Channels and Integration?
52. What is the role of channels and integration?
53. Why is it important to study channels and integration?
54. What is a dialogue management system?
55. What new technologies are being used in the project?
56. Why have you selected this project?
57. What is the main motive of this project?
58. How is it beneficial for society?
59. What is the reliability of this idea in real life?
60. Can we use this idea in India?
61. Will this idea require any special space to implement?
62. Is this cost efficient?
63. How are you helping the society through this?
64. How can we use this project in the real world?
65. Is there any special kind of requirement for this project?
66. What will be the impact of this project?



67. What is the cost of this project?
68. Do you require any hardware or software?
69. Do you person to operate this project?
70. How many people can interact with this project at a time?
71. What is the source of the information in this project?
72. Is it a Innovation or a borrowing ?
73. What is innovation?
74. What is borrowed/borrowing?
75. What is the basic scientific/ engineering/ design principle involved in the project?
76. How much is it going to cost when being implemented in real word?
77. What is FAQ?
78. What is fullform of the FAQ?
79. How does Rasa NLU help rasa?
80. How does Rasa Core Functions?
81. How much time does it take for the bot to reply?
82. Is the bot available for interaction 24X7?
83. Does the bot show real time statistics?
84. Do we need to Upgrade the bot?
85. Does the bot require maintenance?
86. Is the bot trustworthy?
87. Can the bot be used by locals?
88. Is it possible for locals to access it?
89. How is it helpful for locals?
90. Can the bot be accessed over a smartphone?
91. Is it safe to use a bot?
92. Why have you chosen Rasa for implementation of chatbot?
93. Is the project feasible?
94. What makes Rasa an Ideal software for chatbot?
95. Can we integrate the bot over popular messaging platforms?
96. Could we integrate the chatbot with a Website?
97. What is an AI assistant?
98. AI stands for?
99. Does Rasa support multiple languages?
100. Can Rasa provide a voice based assistant?



9. Bridge Monitoring System

1. What is Bridge Monitoring?
2. What is a bridge monitoring system?
3. Why is it necessary to monitor the bridge?
4. What is the basic idea behind the proposed project?
5. What all things have been used in this project?
6. What do you mean by IOT?
7. What is the full form of IOT?
8. How IOT is being implemented in this project?
9. What do you mean by sensors?
10. What kind of things can be detected using sensors?
11. What is an Ultrasonic Sensor?
12. What is the basic principle behind ultrasonic sensors?
13. Why do we use an ultrasonic sensor in this project?
14. What is the application of ultrasonic sensors in this project?
15. What is a Vibration Sensor?
16. What is the basic principle behind vibration sensors?
17. Why is the vibration sensor used?
18. What is a Weight Sensor?
19. What is the basic principle behind weight sensors?
20. Why is the Weight sensor used?
21. What do you mean by a Flex Sensor?
22. What is the basic principle behind flex sensors?
23. Why is the flex sensor used in this project?
24. How do all these sensors work?
25. What is a controller?
26. What is a Node MCU?
27. Why is the Node MCU used in the project?
28. How does a Node MCU work?
29. What is a Wifi Module?
30. How does a wifi module work?
31. What is an Arduino UNO?
32. What are the different types of Arduino?
33. How does an arduino work?
34. What are analog and digital pins in arduino?
35. What is the name of the wifi module?
36. What is the difference between Arduino and a Node MCU?
37. Why do we connect Arduino to a computer or a laptop?
38. Why do we write a code to operate a controller?
39. Where do we write a code for Arduino?
40. What is a Servo Motor?
41. For what purpose servo motor is used in the project?
42. What is a barrier?
43. Why is the barrier used in this project?
44. How is the barrier operated?
45. What do you mean by LED?
46. How does LED work?
47. What is the basic principle of LED?
48. What is anode and cathode?
49. What is a resistor?
50. Why do we use a resistor?
51. What are the different types of resistors?
52. What is the unit of a resistor?
53. How do we calculate the value of a resistor?
54. From where do we get the color codes of the resistor?
55. Why does LED need a resistor?
56. What is the indication of blinking of LED in this project?
57. What do you mean by VCC and GND?
58. What do you mean by a breadboard?
59. What is a jumper cable?
60. How are connections made in breadboards using jumper cables?
61. What is a Website?
62. What role does this website play in this project?
63. What all languages are used to make this website work?
64. Which editor is used to make this website?
65. Can we use an app instead of a website?



66. How can this app be made?
67. What is the current technique of monitoring bridges?
68. What are the disadvantages of the current technique of monitoring bridges?
69. What are all new technologies used in this project?
70. How is this project different from the current technique of monitoring bridges?
71. What are the advantages of the proposed project?
72. What are the main reasons for selecting behind this topic - “Bridge Monitoring System”?
73. What is the main objective of the Bridge Monitoring System?
74. What all things are we going to monitor in this project?
75. How are these sensors connected to the bridge?
76. For whom all this project is beneficial?
77. How is this project beneficial for government officials?
78. How can government officials use this project?
79. How is the collected information provided to the government officials?
80. Can the government officials operate the barriers from their office?
81. How can people operate these barriers from their office?
82. How is this project useful for common people?
83. What kind of accidents can be prevented using this project?
84. Is this project done anywhere in the world?
85. Is this project cost efficient?
86. How much did it cost to make this project?
87. Can we use this idea in all kinds of bridges?
88. Does this project bring any improvement in society and people's life?
89. How do you help the society through this project?
90. How will this project reduce human efforts?
91. What are all the improvements that can be done in this project?
92. What are the future enhancements of this project?
93. How will this project be implemented in the real world?
94. What is the reliability of this idea in real life?
95. How much will it cost to build this project in the real world?
96. Is there any modification needed when implemented in the real world?
97. What is the plan for large scale implementation?
98. How efficiently can we use this project?
99. What are the employment opportunities for the upcoming generation?
100. What is the scope for this project in future?



10. Covid-19 Fighting Bot

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44. Applications of API ?
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47. What is machine learning ?
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49. What is UN SDG?
50. Full form of UN SDG?
51. What is Channels and Integration?
52. What is the role of channels and integration?
53. Why is it important to study channels and integration?
54. What is a dialogue management system?
55. What new technologies are being used in the project?
56. Why have you selected this project?
57. What is the main motive of this project?
58. How is it beneficial for society?
59. What is the reliability of this idea in real life?
60. Can we use this idea in India?
61. Will this idea require any special space to implement?
62. Is this cost efficient?
63. How are you helping the society through this?
64. How can we use this project in the real world?
65. Is there any special kind of requirement for this project?
66. What will be the impact of this project?



67. What is the cost of this project?
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69. Do you person to operate this project?
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85. Does the bot require maintenance?
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88. Is it possible for locals to access it?
89. How is it helpful for locals?
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11.Multipurpose Locomotive with Wireless Communication

- 1) Who is invented AC and DC ?
- 2) What is meant by dc and ac current ?
- 3) What is Alternating current ?
- 4) What Different between Alternating current and direct ?
- 5) Difference between Alternating current and direct ?
- 6) Name the three law of Robotic ?
- 7) Explain the first low ?
- 8) Explain the second low ?
- 9) Explain the three law ?
- 10) What is meant by flowing current ?
- 11) What will do ohms ?
- 12) What will do volt ?
- 13) What will do Ampear ?
- 14) What is meant by Robotic Car ?
- 15) How many type of Robotic car ?
- 16) Explain the history of robots ?
- 17) Name the type of robot programming languages ?
- 18) Explain the C/C++ languages ?
- 19) Explain the python languages ?
- 20) Explain the java languages ?
- 21) Explain the C#/.Net languages ?
- 22) How is made robot programming languages?
- 23) How many type of robotic cars ?
- 24) What is a Wi-Fi controlled robot ?
- 25) What is obstacle avoiding robot ?
- 26) What is line follower robot ?
- 27) What is the Wi-Fi models ?
- 28) What is esp8266 wifi model ?
- 29) Who is made component required ?
- 30) How many type of component required ?
- 31) How many type of microcontroller ?
- 32) What is meant by microcontroller ?
- 33) What is meant by nodemcu pin configurations ?
- 34) what reset button in nodemcu ?
- 35) why is the Wi-Fi modules ?
- 36) what is meant by ground pin ?
- 37) what is meant by Digital pins ?
- 38) what is USB ? what do you that ?
- 39) why many parts of arduino ?
- 40) what is meant by arduino ?
- 41) who is arduino made? name the person ?
- 42) who many types of arduino?
- 43) what is meant by chassis
- 44) what is type of robotic wheels ?
- 45) whyAttachaed the external power button in arduino ?
- 46) what is meant by bo Motors ?
- 47) what is made by bo motor ?
- 48) full form of bo motor ?
- 49) how many types of bo motor ?
- 50) why you will made a Arduino car?
- 51) What is difference between AC & DC current ?
- 52) why current flow
- 53) Why DC current flow direct
- 54) why ac current not flow as an direct current
- 55) why& how current invented
- 56) pani current kyoulagtahai
- 57) ohmkonhai or uskakaamkyahai
- 58) voltagenahidiya to current flow hoga ?
- 59) what is working of node MCU
- 60) what is MCU
- 61) how many types of MICROCONTROLLER
- 62) where ATMEL AVR is use
- 63) in which types of robotics LilypadArduino is uses
- 64) what is Arduino Leonardo
- 65) what is uses of digital pins in Arduino
- 66) why digital pins start from 2 pin



- 67) in arduino where we can attach jumper wire
- 68) Full to humanoid robotics kabtakaayega ?
- 69) which part is used in WiFi controller to prevent from damage
- 70) which arduino is used in obstacles avoid robotics
- 71) how line follower robot follow the line
- 72) what are the reason due to which robot don't obey the order
73. What are the power source of arduino ?
74. What is the use of reset button?
75. How we can recall the reset information?
76. How servo motor works?
77. How much voltage is needed for motor?
78. How many types of motor?
79. what is brass nozzle ?
80. why we use Dc geared motor?
81. How many programming language for robotic ?
82. Which programming language we are using in our project?
83. which component is important to make robotic?
84. What is working of antenna?
85. what are the types of node MCU?
86. Which model we are using of Node MCU ?
87. what is full form of RSV pin?
88. what is full form of EN pin?
89. What is SpO2 sensor?
90. What are the types of sensor?
91. Which types of sensor we are using in our project?
92. How we are controlling are robotic car?
93. How robotic car will be self sanitizing?
94. For which purpose are robotic car is?
95. How much voltage is required for Arduino ?
96. How much voltage is required for node MCU?
97. How much voltage is required for our robotic car?
98. What is motor driver IC?
99. Which communication we are using in our project?
100. What is cost of our project?



12. Warehouse Automation

1. What do you mean by warehousing?
2. What do you mean by automation?
3. In which fields is automation used?
4. In which fields is warehousing used?
5. What are the different processes carried out in warehousing?
6. Which types of products are stored in the warehouse?
7. What are the problems faced in warehouse management?
8. How can we overcome those problems faced in warehouse management?
9. How is this project beneficial to the society?
10. What is the purpose of lift mechanism?
11. How many axes exist in the lift mechanism?
12. Why axis system is used?
13. What is the X-axis made up of?
14. What is the Y-axis made up of?
15. What is the Z-axis made up of?
16. Why rack is of 3x3 size only?
17. What is the working of X-axis?
18. What is the working of Y-axis?
19. What is the working of Z-axis?
20. Can the lift mechanism called as a robot?
21. What is conveyor belt?
22. What are ball bearings?
23. What is RFID?
24. How does the RFID works?
25. What is the work of coil inside the RFID Tag?
26. What are the various applications of RFID?
27. What are the different types of RFID Tag/Card?
28. What are the RFID Tags used?
29. Which kind of RFID is used in the Project? Why?
30. What do you mean by frequency?
31. What is the frequency of RFID Tag/Card?
32. Which kind of information can be stored in the RFID Tag?
33. How is the power supply generated in passive tag?
34. What is Barcode?
35. Where are the Barcode used?
36. How is RFID different from Barcode?
37. What is the role of RFID in the Project?
38. What is RFID Reader?
39. What is the range of RFID Reader?
40. What is the maximum range of the RFID Reader?
41. What is transceiver?
42. What is transponder?
43. Which RFID Reader Module is used in the Project?
44. What is the purpose of RFID Reader?
45. How does the RFID Reader identifies each product?
46. What do you mean by processor?
47. How many types of processors are available?
48. What is the difference between processor and computer?
49. Why two processors are used?
50. Which processor is used here? Why?
51. What do you mean by WI-FI?
52. What do you mean by Internet?
53. What are the various applications of Wi-Fi?
54. What is the difference between Wi-Fi and Internet?
55. Which Wi-Fi Module is used here?
56. What is the purpose of Wi-Fi Module?
57. How many types of Wi-Fi Modules are available?
58. What is the range of Wi-Fi in NodeMCU?
59. What is Breadboard?
60. What is Shouldering of the wire?
61. Where is the Breadboard used?
62. Why CNC Shield is used?
63. What do you mean by power supply?
64. How much power supply is needed for the project?
65. What is the hardware made up of?



66. What is the software made up of?
67. What is Stepper motor?
68. What is DC Motor?
69. What is the advantage of Stepper Motor over DC Motor?
70. Why Stepper Motor is used in the Project?
71. Which motor is used for movement of the lift mechanism?
72. Why not other motor is used?
73. Which are the different kinds of motors?
74. What are the motor drivers?
75. Why drivers are needed in motors?
76. Which motor driver is used for stepper motor?
77. How does the motor rotates?
78. How are the components connected to each other?
79. Which kind of motor driver is used in the project? Why?
80. What is cloud server?
81. What is the purpose of cloud server?
82. What is IOT?
83. What are the applications of IOT?
84. What is the purpose of Blynk Application?
85. Why only Blynk Application is used? why not other application?
86. What are the other sources available in place of Blynk Application?
87. How to retrieve the product with the help of application?
88. Why programming is required?
89. Where the data does gets stored about the products in the warehouse?
90. How does the lift moves in forward direction?
91. How does the lift moves in backward direction?
92. How is the product stored onto the rack?
93. What is the cost of the model?
94. What is the most innovative thing in the project?
95. What is the future use of this project?
96. What is the objective of the project?
97. What is the advantage of the project?
98. What is the disadvantage of the project?
99. Where is this project implemented in the warehouse?
100. How much is it going to cost when being implemented in real world?



13. Smart lock

1. Why choose this experiment when there are so many experiments ?
2. Why use development board Arduino Nano in this project?
3. Who invented fingerprint and when ?
4. From which source power is given in this project ?
5. If we use battery then how much mah battery is used?
6. This development board is of how much volts ?
7. How and why use this development board ?
8. Though the development boards available are of many brands then we are why use 'Arduino' brand ?
9. If we are use this lock in the 'mall' or 'big places' then there are use many locks ,then many electricity is waste then this problem what solution ?
10. Is project now used in any places ?
11. Is this project successful in this place ?
12. Many time if the fingerprint is not scan then can we are use the pin code ?
13. Now face lock , pin code , pattern etc. many solutions available then why we are using fingerprint ?
14. How did you get idea for this project ?
15. What message can you give people with this experiment ?
16. What is a solenoid ?
17. After fingerprint scan how do you know if it is correct ?
18. How fingerprint sensor works ?
19. How solenoid is made ?
20. What is price of lock?
21. How arduino works?
22. What are the uses of this project to ordinary person ?
23. Can this lock alo work with a key?
24. What is an electro magnet?
25. Can the solenoid be replaced ?
26. How lond does the battery last ?
27. If the thief will break the lock then how do we know it ?
28. Can we track this thief by any means ?
29. If one of the fingerprint is save then this fingerprint can be sent it?
30. Is Key less lock safe ?
31. Is Fingerprint more safe then password ?
32. Once a finger is touched ,how long can it remain open ?
33. Whethere the lock once opened automatically Close ?
34. What is the main memo in this project ?
35. What is special about this project ?
36. 3D printing is what ?
37. Does this project harms the environment ?
38. What have we learned in this project ?
39. What is the cost of solenoid ?
40. How many ampere current does your solenoid require ?
41. How many amperes does it taken to have the worlds largest solenoid ?
42. How many prise of the worlds largest solenoid ?
43. Where to make the largest solenoid in the world ?
44. Cost of your 'FPS'?
45. How many price of big 'FPS'
46. Our 'FPS' where is it created ?
47. Which company create our 'FPS' ?
48. How many price of our development board ?
49. How many price of one transistor ?
50. How many joints in a development board ?
51. How many fingerprints can be saved in our project ?
52. How to made solenoid ?
53. Which substance are used in solenoid ?
54. How to broke a lock an emergency time ?
55. Which substance are used to broke our lock ?
56. When fingerprint technology is found ?
57. Who found fingerprint technology ?
58. What are uses of development board ?
59. How many ports in the development board ?



60. What are uses of solenoid ?
61. What is size of solenoid ?
62. Output and input is a difference ?
63. 1kw means how many 'w' ?
64. Is it possible to wrack our project ?
65. How to wrack our project ?
66. How many electricity we use in our project ?
67. Is our project are useful in 20th century ?
68. What is capacity of development board ?
69. What size of development board ?
70. What is capacity of capacitors ?
71. Each capacitor how many capacity ?
72. Why we use bread board in our project ?
73. What uses of bread board ?
74. What size of bread board ?
75. What price of bread board ?
76. What is price of one capacitor ?
77. Which resistor we use in our project ?
78. What are types of resistance ?
79. What is a price of one resistor ?
80. Why we not use capacitive 'FPS' in our project ?
81. Why we use optical type 'FPS' ?
82. What uses of underscore ?
83. Why 3.3 current wire not in 'FPS' ?
84. Why TX and RX pins are not in the solenoid ?
85. What is a prise of our project ?
86. What is a size of our project ?
87. All information have in library ?
88. Why protocol use to data transfer ?
89. Our project is useful to poor people ?
90. Which other option to 'FPS'
91. How many current have to relay work ?
92. What is missing point of our project ?
93. Can We use caller machine to our project ?
94. It is useful to project ?
95. How many current are in capacitive 'FPS' ?
96. Which uses of transistors ?
97. Which is different types of transistors ?
98. What is price of bread board ?
99. What is price of jumper wire ?
100. Solenoid is made in INDIA ?
101. How many prise of INDIAN solenoid ?
102. How many types of solenoids ?
103. What is cost of our solenoid ?
104. How many current have to work big fingerprint ?
105. All fingerprint sensors processing method are same or not ?
106. Which company make fingerprint scanner ?
107. How many current use optical fingerprint ?
108. How many types of sensors ?
109. Which sensor are mainly used in lock system ?
110. What different in our project ?
111. How to form big lock ?
112. Which biggest solenoid in the other solenoid ?
113. How many price of big solenoid ?
114. How many size of big solenoid ?
115. How much current required to operate solenoid ?
116. What is the maximum capacity of solenoid ?
117. Our project are fit on any metal ?



14. Automated Sea Bin (Skimmer)

1. What is Automated Sea Bin?
2. What new technologies are being used in the project?
3. What do you mean by sensors?
4. How many types of sensors are being used in this project?
5. What types of smart solutions have been taken through the project?
6. Why have you selected this project?
7. How will the garbage be collected?
8. How do you spot the garbage?
9. What is coding?
10. What languages are used for coding?
11. What is a USB camera?
12. How is it being used in the project?
13. How will we control the model?
14. What are motors?
15. How do motors work?
16. How many types of motors are there?
17. What are BLDC motors?
18. How are BLDC motors used?
19. What are servo motors?
20. What are stepper motors?
21. What is an Electronic Speed Controller?
22. How is the Electronic Speed Controller used?
23. What is Raspberry Pi?
24. How is a Raspberry used?
25. What types of Raspberry Pi are there?
26. What ports does a Raspberry Pi have?
27. What is NOOBS software?
28. How is Raspberry Pi different from an Arduino?
29. How much power does a Raspberry Pi require?
30. What is the meaning of Stakeholders?
31. Who are the Stakeholders related to this project?
32. What is a Business Plan?
33. What are solar panels?
34. How do solar panels work?
35. What are the applications of solar panels?
36. How do we get the camera feed?
37. What are servo motors used for in our project?
38. How much battery life does the Automated Sea Bin have?
39. What is the max range of the Automated Sea Bin?
40. What all can be raspberry Pi used for?
41. What is the potential of Raspberry Pi?
42. What is node red?
43. What is the main motive of this project?
44. What are the advantages of this technology?
45. How is it beneficial for the society?
46. On what principle does Automated Sea Bin work?
47. What is breadboard?
48. Is this type of implementation done anywhere across the globe?
49. Can we use this idea in India?
50. Is there any kind of modification needed?
51. Will this idea require any special space to implement?
52. How do we power this project?
53. What is the difference between AC and DC current?
54. Is this cost efficient?
55. How does the Automated Sea Bin work?
56. What types of sensors are used in Automated Sea Bin?
57. How is a USB camera different from normal camera?
58. What is the main objective of Automated Sea Bin?
59. How are you helping the society through this?
60. Is there any special kind of requirement of the Automated Sea Bin?
61. Which type of sensors are used in Automated Sea Bin?
62. What are the types of batteries?
63. What are lead acid battery?
64. What is a li-po battery?
65. What is a li-ion battery?



66. What is a diode?
67. What are GPIO pins?
68. How do we use GPIO pins?
69. What can we use the GPIO pins for?
70. What is the full form of GPIO?
71. What do you mean by resistors?
72. What are the different types of resistors?
73. How are the resistors being classified?
74. What is the SI unit of a resistor?
75. How is resistance calculated?
76. What do you mean by capacitor?
77. What are the different types of capacitors?
78. What is the basic principle of capacitor?
79. What do you mean by LED?
80. How does LED works?
81. Why do LED needs resistor?
82. What is the basic principle of a diode?
83. What do you mean by IOT?
84. How are we using IOT?
85. What electronic components are there?
86. What is a transmitter?
87. What is a receiver?
88. How reliable is the Automated Sea Bin?
89. What are the main components in Automated Sea Bin?
90. What are the main advantages of Automated Sea Bin?
91. How does the society benefit from Automated Sea Bin?
92. How are you going to implement smart waste management in real world?
93. What are the benefits of waste management?
94. How is Automated Sea Bin going to help the upcoming generation?
95. What do you mean by Microprocessor?
96. How is it going to reduce human effort?
97. What is relay module?
98. What is the basic principle of relay module?
99. How does relay module work?
100. What is the cost of this project and how much will it cost for implementing it in real world?
101. What are the employment opportunities for the upcoming generation?
102. How much is it going to cost when being implemented in real word?
103. Can it be used in any water body?
104. What is the maximum speed of the Automated Sea Bin?
105. What are the materials used?
106. What are PVC pipes and why do we use that?
107. What all components are used?
108. What is buoyancy?



15. Disaster Alert for Smart City

1. What do you mean by urbanization?
2. What are the various effects in cities due to urbanization?
3. What is migration?
4. What are the effect of migration in the cities?
5. How the cities are getting affected due to increasing population?
6. What are the various elements include in the development of smart cities?
7. What are the types of disasters occurring in our country?
8. How can we prevent ourselves from natural disasters?
9. What are the main reasons which leads to natural disasters?
10. Which sections we are including in our project?
11. How to provide power supply to the project?
12. What are the types of power supply?
13. What is DC and AC supply?
14. What is flood management?
15. What is breadboard?
16. How the breadboard works?
17. How many pins are present in breadboard?
18. What is PCB?
19. What are the types of PCB?
20. How the PCB works?
21. What is Arduino microcontroller?
22. What is basic principle of microcontroller?
23. How many types of Arduino microcontroller?
24. What are the various functions of Arduino microcontroller?
25. What is the working of Arduino in our project?
26. What are the libraries in Arduino?
27. Can we use other microcontroller device instead of using Arduino?
28. How many input output pins are present on Arduino?
29. What is difference between analog input and digital input?
30. What do you mean by sensors?
31. What is Ultrasonic sensor?
32. On which principle Ultrasonic sensor work?
33. What is the range of Ultrasonic sensor?
34. How can we measure distance between objects?
35. How many pins are present in ultrasonic sensor?
36. What are the advantages and application of ultrasonic sensor?
37. What is LCD display?
38. Why LCD called 16X2 Display?
39. Is there any limit of character to display on alphabet?
40. How many pins are present in LCD display?
41. How LCD Display receives input?
42. What are the application of LCD display?
43. What is earthquake management?
44. What is accelerometer sensor?
45. How the accelerometer sensor works?
46. What are the advantages of using Accelerometer sensor?
47. What is buzzer?
48. What is principle of buzzer?
49. How the buzzer produces sound?
50. How you got an idea about women safety system?
51. What is Capacitive Touch Sensor?
52. How the capacitive Touch sensor works?
53. What are the applications of capacitive touch sensors?
54. What is LED?
55. How does LED Works?
56. Why LED requires to work with resistors?
57. What do you mean by Road crossing system?
58. How the handicap person and children's will safely cross the roads ?
59. What is smart city?
60. How smart city will help other peoples?
61. What we are implementing in smart city?
62. Why we are using smart street lights?



63. How street lights will work?
64. What is IR sensor and LDR?
65. What is theory behind IR sensor?
66. If IR is already in project then why we are using LDR?
67. What is basic principle of LDR?
68. How IR sensors will detect the obstacle?
69. What is range of IR sensors?
70. Why IR sensors are not working in sunlight?
71. Can IR sensor detect Human?
72. What are the Applications of IR sensor?
73. Why we are implementing Traffic light control system?
74. How IR sensor will Detect the High density Traffic lane?
75. How the Traffic signal can be Managed?
76. What are the main advantages of traffic light control system?
77. What if there is an ambulance?
78. Can we Create separate road for ambulance/emergency services?
79. What is waste monitoring?
80. How waste department will find the Location of dustbin?
81. Can we divide dustbins into three levels?
82. How our parking system is different from others?
83. How IR sensor will work in parking System?
84. What is servo motor?
85. What is principal of servo motor?
86. What are the types of servo motor?
87. Which type of servo motor we are using?
88. Where we are using servo motor?
89. What message we can display on LCD for parking?
90. What is main objective of these project?
91. What are the new technologies are being used in this project?
92. What are the benefits of this city?
93. What is approximate cost of project?
94. How can we modify this project?
95. What is machine learning?
96. Is Arduino being easy to code?
97. What we need to learn to code Arduino?
98. Which is basic and easy coding language?
99. Which language Arduino uses for coding?
100. What are different types of coding languages?



16. POKIA ELECTRIC ENERGY

1. What is dynamo?
2. Why we are using 12V dynamo?
3. Why we are using dynamo instead of DC Motor?
4. What is rectifier?
5. What is resistor?
6. What is universal PCB?
7. What is different between AC current and DC current?
8. Is this cost efficient?
9. How is it beneficial for the society?
10. What is tachometer?
11. What is RPM?
12. What is SI Unit of current?
13. What is True RMS Meter?
14. What anode and cathode?
15. What is SPDT switch?
16. What is soldering?
17. How soldering works?
18. What is difference between voltage and current?
19. What is advantage of this project?
20. What is disadvantage of this project?



17. Resuable Construction Material

1. What is our project about?
2. What will we do for that?
3. What will be the action?
4. Why cement only?
5. Can't we use any alternative of cement rather than recycling it?
6. How cement affects?
7. How much CO2 we eliminate?
8. Do India is part of that?
9. Which one is at first?
10. How is 1 billion?
11. How much is 1 tone?.
12. How much emission India do?
13. Why don't government take any action for this scenario?
14. How will our project make a difference in this condition?
15. How this affect production?
16. Why will they ask recycled cement in place of normal cement?
17. What will be our steps to ensure them about this?
18. How will we compare?
19. What tests are that?
20. What is compression test?
21. What will be the procedure?
22. How will we do the test?
23. What is casting?
24. How will we secure dimensions of our Cube?
25. How will we do this?
26. What is IS?
27. What is IS:456?
28. What is cement Mix?
29. What mix design are we going to use?
30. Why is it most used?
31. What is N/mm²?
32. What is mm?
33. What is the design for M25?
34. How will we use it practically?
35. How will we use mold?
36. What is Tamping?
37. How will we do that?
38. Why is it necessary?
39. What is curing?
40. Why is it necessary?
41. How many days do we need to pour it inside?
42. How the compression test occurs?
43. What is tensile test and why it is not necessary?
44. What Is the use of workability test?
45. How will we measure workability?
46. What do we need to do in that?
47. Is there different categories of it?
48. What are they?
49. How is strength related to Workability?
50. What if we focus only on strength and add no water?
51. Which cement is the best?
52. Is cement only made of limestone?
53. What temperature they prefer to heat it?
54. From where we get limestone?
55. How are we going to process in our project?
56. What is segregation?
57. How will we do it?
58. What is rubble?
59. What is sieve?
60. What result should we get?
61. What are the major expectations?
62. What will be the major conclusions of this project?
63. What if do not get expected results?
64. What changes will we need to do?
65. Who founded cement?
66. What is PPC Cement?



67. Why OPC is most consumed?
68. So why they discovered PPC?
69. Then why people use OPC?
70. What is Curing?
71. How people dumping the demolished material now?
72. How will we present our report?
73. Is there any building constructed with recycled concrete till now?
74. How our project will be a unique research?
75. How a cement can provide good quality?
76. What makes cement weak?
77. It's there any other industry which pollutes the air as cement industries do?
78. Isn't there any other material which we can use for construction?
79. Why can't we move to the steel from concrete?
80. How much change do we expect from our initiation?
81. How can we expect this?
82. How climate change is a concern?
83. Do cement only pollutes the air during manufacturing process?
84. Why cement feels hot during casting process?
85. Are there any side effects of heat of hydration?
86. How cracks affect?
87. How to prevent cracks?
88. How will we present our comparison?
89. How tall structures stay steady?
90. Do air affect the tall structure?
91. How do we prevent it now?
92. What is shear wall?
93. What is torsion?
94. Can we use our product in big construction projects?
95. Can't we get more cracks in used cement?
96. How will we differentiate our cement in OPC and PPC?
97. What will be the life of our product?
98. How it will be cost effective?
99. What will be the disadvantages?
100. What is our milestone?
101. Will our research follow the same standards given in IS?
102. What is the pH of cement?



18. Covid Patient Remote Health Monitoring System

1. What is the Name and concept of project?
2. Why have you selected this project?
3. What was the problem that caused you to choose this project?
4. What types of solutions have been taken through this project?
5. How can we develop this project at school level?
6. What do you mean by remote health monitoring system?
7. What new technologies are being used in the project?
8. What are the advantages of covid patient remote health monitoring system?
9. What is the main motive of this project?
10. What is required use of remote health ms?
11. How work remote health monitoring system?
12. What do you mean by sensor?
13. How many types of sensors are being used in the project?
14. How the project is beneficial for the society?
15. What is the full form of SPO2 ?
16. What is mean by SPO2 ?
17. What is mean by SPO2 circuit?
18. What is mean by temperature?
19. What is mean by temperature circuit?
20. What is mean by heart rate?
21. What is mean by heart rate circuit?
22. What is the range of temperature?
23. What is the range of SPO2?
24. What is the range of heart rate?
25. How are you helping the society through this project?
26. What is the full form of LCD?
27. What is the LCD display?
28. What is the Arduino?
29. Which temperature sensor used in this project?
30. How many type of arduinoused in this project?
31. Which SPO2 sensor used in this project?
32. Which heart rate sensor used in this project?
33. How does temperature sensor work?
34. What is LM35?
35. What is the use of LM35?
36. How does SPO2 sensor work?
37. How does heart rate sensor work?
38. Why covid patient remote health ms is necessary?
39. How many pins does temperature sensor have?
40. Monitor temperature sensor is used for what?
41. For programming of project which computer programming language used?
42. How SPO2 is calculated?
43. What are the disadvantages of covid patient remote health ms?
44. what are the applications of covid patient remote health ms?
45. What are the specifications of LM35 temperature sensor?
46. Circuit diagram of covid patient remote health monitoring system.
47. Through which type patients data reaches to health operators or doctors?
48. What are the specifications of SPO2 circuit?
49. What are the specifications of heart rate circuit?
50. Explain working diagram of covid patient remote health ms.
51. This project can applicable for numbers of patients?
52. Which type of technology is used in this project?
53. This project is only valid for covid 19 patients?
54. Which arduino used in this project?
55. Why used arduino Mega 2560 ?
56. Explain specifications of arduino Mega 2560.
57. How many health parameters measured by this project?
58. Which language used in arduino?
59. What is an arduino Mega 2560?
60. How can we use this project in the real world?
61. Which health parameters measured by this project?
62. What is the full form of ECG?



63. What is mean by ECG?
64. What is the range of ECG?
65. What is the range of respiration rate?
66. Which things calculated from this project?
67. LCD operate at which voltage range?
68. LCD operate at which frequency range?
69. Why remote health monitoring system important?
70. Which are the function of sensor?
71. What can affect SPO2 readings?
72. Why do we need sensors?
73. How do you assess SPO2?
74. What are the readings on a pulse oximeter?
75. What is the principle of sensors?
76. Coronavirus affected patient temperature range?
77. What is the reading of oximeter for covid patient?
78. What are the uses of computer programming language C?
79. Can a pulse oximeter detect heart attack?
80. Features of C programming language.
81. What are the advantages of C programming?
82. What is the purpose of monitoring health?
83. When did remote health monitoring system begin?
84. Why project opposite to electrical field?
85. What is scanf() in C?
86. What is printf() in C?
87. What is main() in C?
88. What is meant by monitoring?
89. What is the function of arduino Mega 2560?
90. Who is the father of C language?
91. Why do we need monitoring?
92. How many keywords are there in C?
93. What are the benefits of arduino Mega 2560?
94. Arduino mega 2560 have how many bits?
95. What was a challenging project?
96. Whats new things studying from this project?
97. How many digital pins in arduino Mega 2560?
98. How can handle this project?
99. What are the features of arduino?
100. Why arduino Mega 2560 is used?
101. Working of LM35 pins.
102. What is mean by SDG?
103. How many SDGs and which?
104. Which new technology we learn from this project?
105. How is covid patient remote health monitoring system useful?
106. Can this project we develop a digital health platform?
107. From this project how we improved quality of care?
108. What is the cost of project?
109. How much is it going to cost when being implemented in real world?



19. E-Learning Management System with Online Exam Portal

01. What is your aim to develop this project?
02. Advantages of this project compared to current system?
03. What extra facilities is your project giving to users?
04. What is your project scope in future?
05. For avoiding cheating in exams what precautions or safety measures you are taking?
06. Who will be the users of your project?
07. Your project is free of paid?
08. Limitations of your project?
09. What types of questions can be included in the exam?
10. How is result evaluated?
11. In what form will the feedback taken?
12. What will be the questions in feedback?
13. How will you take attendance of students?
14. Is there any time restrictions for lectures?
15. What are your software requirements?
16. What are your hardware requirements?
17. Why should users choose your project?
18. How will your project benefit to staff?
19. How will your project benefit to students?
20. Will there be any login credentials?
21. Who will be the admin of project?
22. Will you be providing any free version your project?
23. If yes, what will be included in the free version?
24. Why have you chosen this project for development?
25. What do you think, face to face teaching is better or online?
26. How you gathered requirements of your project?
27. What is front end and back end of your project?
28. What are the methodology used in your project?
29. What is your role in your project?
30. Explain flow of your project?
31. What are the entities in your project?
32. What are the drawbacks of your project?
33. How you test your project?
34. How do you typically handle the E-Learning design process?
35. Is your website static or dynamic?
36. Difference between static website and dynamic website?
37. Full Form of Php?
38. Which framework you used to develop the project?
39. Applications of laravel.
40. Why do you choose Php for your project?
41. What is echo in php?
42. What is Laravel?
43. Why you used Laravel framework?
44. Advantages of laravel.
45. Which are the main features of laravel?
46. How can you create a database using Php and Mysql?
47. Explain working of your project.
48. What is the cost of your project?
49. How many modules are there in your project?
50. Which type of contents were support in your project?
51. Explain system architecture?
52. How to show the result?
53. What is the full form of LMS?
54. Which language you used in the system?
55. How do you prioritize tasks on a project?
56. Can Online teaching provide the same benefits as face to face lectures?
57. What are the characteristics you your project?
58. What are the setting to be done before exam?
59. Can students make or receive phone calls during the exam?
60. If internet connectivity is not god, what will happen?
61. What actions causes system warnings/terminations during the exam?
62. Can I change the device during exam?
63. How does E-Learning benefits your organization?



64. What are key challenges preventing E-Learning success?
65. Security and privacy Challenges in E-Learning?
66. How much budget and time do you have?
67. Is there negative marking in exam?
68. In which format exam output will be display?
69. How are online exam monitored?
70. How online examination system is helping universities in education continuity?
71. Is there anytime and anywhere accessibility?
72. How to appear for exam?
73. Which is extra security layer is added?
74. What is feedback module?
75. How will you record the presenting screen?
76. How you can distributed study materials?
77. Is multi theme is supported or not in your project?
78. What are the objectives? How do you define success?
79. If the project doesn't succeed, what are the implications?
80. Why is this project so important?
81. What is the case for change?
82. What are the key milestones? What are the most important dates?
83. What are the most important decisions that need to be made?
84. What will prevent us from making those decisions?
85. What are the biggest obstacles to getting this done?
86. Who are the key stakeholders?
87. Who's the owner/sponsor?
88. Who influences but doesn't own?
89. Who has the potential to be an obstacle?
90. What are the project's greatest assets?
91. How can we best leverage those assets?
92. What are the most important areas we should always focus on?
93. How much risk are you willing to take to accomplish this?
94. What barriers have you encountered in the past about this issue?
95. What keeps you up at night about this?
96. What topics haven't we discussed?
97. What topics would you rather not discuss?
98. What is your personal passion about this project?
99. What will this mean to you when we succeed?
100. Who will benefit from your project?



20. E-Waste Disposal Using Machine Learning

- 1) What is E-Waste?
- 2) What are the examples of E-Waste?
- 3) Why is the E-waste a serious problem in India?
- 4) How much tons E-waste is generated in India every year?
- 5) How harmful e-waste is for human life and surroundings?
- 6) Which state is the largest producer of e-waste in India?
- 7) What are sensors?
- 8) How many types of sensors are being used in this project?
- 9) What is the efficiency of this machine?
- 10) How this machine is work?
- 11) What are the advantages of E-Scrapper?
- 12) Which components we will use to make this machine?
- 13) What are the applications of this machine?
- 14) What is Raspberry Pi?
- 15) What is Arduino?
- 16) What is the difference between Arduino and Raspberry Pi?
- 17) Why did you choose Raspberry Pi over Arduino?
- 18) Which Camera Module we will use?
- 19) What are the uses of Force Sensor?
- 20) Where else the Ultrasonic Sensor is used?
- 21) Whether this machine is DC or AC?
- 22) Do we have to do coding in this project?
- 23) What is Microprocessor?
- 24) What is Micro controller?
- 25) What is the difference between micro processor and micro controller?
- 26) Servo Motor works on which principle?
- 27) What is LCD display?
- 28) Where can you use LCD display?
- 29) What is breadboard?
- 30) What is IR sensor?
- 31) How does IR sensor work?
- 32) How do IR sensor detect obstacles?
- 33) What is the basic principle of IR sensor?
- 34) Where are IR sensors used?
- 35) What is the maximum range of IR sensors?
- 36) Will this idea require any Special space to implement?
- 37) Is this cost efficient?
- 38) What is the maximum range of ultrasonic sensors?
- 39) How will this machine solve the e-waste issue considering our population & upcoming new technologies?
- 40) What is the principle of ultrasonic sensor?
- 41) What is HDMI cable?
- 42) Where else HDMI cable is used?
- 43) How we will power Raspberry Pi?
- 44) What we will use for storage?
- 45) Why Raspberry Pi called as portable computer?
- 46) What is the main objective of E-Scrapper?
- 47) How we will implement E-waste disposal in real world?
- 48) What is AC?
- 49) What is DC?
- 50) What is the difference between AC and DC current?
- 51) What is the advancement in raspberry pi 3 over raspberry pi 0
- 52) What is OS?
- 53) What is Raspbian?
- 54) What is Machine learning?
- 55) What is Artificial Intelligence?
- 56) Is Machine learning a part of Artificial Intelligence?
- 57) What is Database?
- 58) What is the use of Camera module in our project?
- 59) What is machine learning?
- 60) What is AI?
- 61) What is a ML model?
- 62) What is model training?
- 63) What is anode?
- 64) What is test data?



- 65) What is dataset?
- 66) What is deep learning?
- 67) What are neurons?
- 68) What are layers in deep learning?
- 69) What are weights in DL?
- 70) What is transfer learning?
- 71) What are the predictions in ML?
- 72) What is convolution?
- 73) What is MATLAB?
- 74) What is regression?
- 75) What is classification Model?
- 76) What is supervising learning?
- 77) What is cluster?
- 78) What are reinforcements?
- 79) What is unsupervised learning?
- 80) What is linear regression?
- 81) What is big data?
- 82) What is Arduino IDE?
- 83) What is weight sensor?
- 84) What is algorithm?
- 85) What are hidden layers?
- 86) What is deploying?
- 87) What is accuracy of model?
- 88) What is CNN?
- 89) What is data feeding?
- 90) What is data analysis?
- 91) What are features of model?
- 92) What is pipelining?
- 93) What is data cleaning?
- 94) What is raw data?
- 95) What are the advantages of the project?
- 96) How this project will help the local people?
- 97) What is the main objective of the project?
- 98) How is it going to increase government revenue?
- 99) What are the employment opportunities?
- 100) What is the cost of the project?
- 101) How much is it going to cost when implemented in real world?
- 102) What is servo?
- 103) What is python?
- 104) What are labels in ML model?
- 105) What is variance?



21.

- 1) what are newton's laws?
- 2) what is force?
- 3) what is energy?
- 4) what is energy conversion ?
- 5) what is charge?
- 6) what are the types of charge?
- 7) what is electric field?
- 8) what is electricity?
- 9) what is electromagnetism?
- 10) what is magnetic field?
- 11) what is electric field?
- 12) what is kinetic energy?
- 13) what is potential energy?
- 14) which energy conversion takes place while jumping?
- 15) what are transducers?
- 16) how charge moves through a wire?
- 17) what is current?
- 18) what is piezoelectric?
- 19) what is a crystal?
- 20) applications of piezoelectricity?
- 21) what are theTypes of force?
- 22) what are the types of current?
- 23) what is AC and DC current?
- 24) how to convert AC to DC?
- 25) what is a capacitor?
- 26) lighting of bulb uses which current? DC
- 27) what is solar energy?
- 28) how is solar energy useful to our project?
- 29) what are visible and invisible rays?
- 30) what is a light spectrum?
- 31) what does capacitor do?
- 32) what is frequency?
- 33) working principle of solar panel?
- 34) can solar panel provide energy during rainy condition?
- 35) what are wave rectifiers?
- 36) what is dipole?
- 37) piezoelectricity produces AC or DC?
- 38) what is lens?
- 39) what does a lens do?
- 40) what are Fresnel lens?
- 41) how can we increase the energy production of a solar panel?
- 42) can solar panel be used at night?
- 43) solar panels works on which spectrum of light?
- 44) how does a speed breaker heat up?
- 45) which energy in the speed breaker are we going to capture?
- 46) what is the proposed model for the speed breaker?
- 47) which type of piezoelectric material are we going to use?
- 48) what is heat sink?
- 49) what is the principle of magnetism?
- 50) types of magnetic force?
- 51) what is law of attraction?
- 52) what are sensors?
- 53) how does a digital LCD display work?
- 54) what is thermal runaway for PN junction?
- 55) how to deal with thermal runaway?
- 56) what are the advantages of this project?
- 57) what are the disadvantages of this project?
- 58) what is the typically efficiency of a piezoelectric material?
- 59) what is the locking mechanism used for electric scooters?
- 60) estimated cost for the setup of the hub?
- 61) what is a PIR?
- 62) where should we locate the hub?
- 63) what is ripple in the output waveform?
- 64) what is ripple factor?
- 65) what is a resistor?
- 66) does resistor block current or energy?



- 67) what is Arduino?
 - 68) Arduino uses which programming language?
 - 69) what is relay?
 - 70) how to connect a buzzer?
 - 71) how to connect LEDs?
 - 72) why should we use a resistor to connect the LED?
 - 73) what is a breadboard?
 - 74) what is a microcontroller?
 - 75) how much power does Arduino give?
 - 76) what is input?
 - 77) what is output?
 - 78) how to power up an Arduino?
 - 79) what is a proximity sensor?
 - 80) how does a PIR work?
 - 81) how does a relay work?
 - 82) what are jumper wires?
 - 83) there are how many types of jumper wires?
 - 84) what does the ground mean?
 - 85) what is a variable resistor?
 - 86) what is a potentiometer?
 - 87) what is programming language?
 - 88) what is an IDE?
 - 89) what is Tx?
 - 90) what is Rx?
 - 91) what is Bluetooth?
 - 92) what do you mean by module?
 - 93) what is the main motive of this project?
 - 94) what are the advantages of the project?
 - 95) what are the disadvantages of the project?
 - 96) what is the reliability of the project in real life?
 - 97) what is the final goal of this project?
 - 98) what is a multimeter?
 - 99) what all things can a multimeter measure?
 - 100) how to use a multimeter as a voltmeter?
- 101) how to use a multimeter as an ammeter?



22. Gesture Recognition Toolkit

1. What do mean by Toolkit?
2. What do mean by Gesture?
3. How can we use this project in the real world?
4. What is kinect?
5. What is XBOX360?
6. What do you mean by sensors?
7. What is the basic principle of kinect sensor?
8. How many cameras available in kinect ?
9. What is RGB?
10. Why RGB camera are use?
11. What is 3D depth sensors?
12. What is the maximum range of kinect sensors?
13. How many sensor are use in our project?
14. What new technologies are being used in the project?
15. Is this type of smart city implementation done elsewhere across the globe?
16. Will this idea require any special space to implement?
17. Why have you selected this project?
18. What type of smart solution have been through the project?
19. How is it beneficial for the society?
20. What is the main motive of this project?
21. How many user use this system?
22. What is the main objective of this project?
23. How to give training on gesture?
24. What is low light?
25. What is night vision?
26. What do mean by touchless system?
27. What are the advantages of our project?
28. What are the Disadvantages of this project?
29. What is the reliability of this idea in real life?
30. Where is camera in kinect sensor?
31. How many features are available in kinect sensor?
32. What's kinect sensor weight?
33. What's kinect sensor size?
34. What's kinect sensor height?
35. What is skeleton?
36. How it's recognize?
37. What is joint ?
38. What do mean by tracking ID?
39. Edge detection is necessary?
40. How many joints are access?
41. What is Time Series ?
42. How to calculate distance?
43. How to find the common point ?
44. What is DTW?
45. What do mean by algorithm?
46. How many frame capture in 1 second?
47. How many joints are display?
48. How to connect kinect sensor with system?
49. How will you you give the solution?
50. What do mean by hardware?
51. What do mean by software?
52. What do mean by smart city?
53. What is Arduino UNO?
54. What is UNO?
55. How many type of Arduino UNO?
56. How Arduino UNO work?
57. What is the use of USB port?
58. What is the use of reset button ?
59. What is the use of power jack?
60. What do you mean by Microcontroller?
61. What is analog signal?
62. What is digital signal?
63. What is the difference between AC and DC current ?
64. How to convert analog In?
65. How to get the signal from kinect sensor?



66. How to get the signal from Arduino UNO?
67. How to get the signal from relay?
68. What is Tx?
69. What is Rx?
70. What type of power supply is being used here?
71. What is the use of Relay?
72. What is relay module?
73. What is breadboard?
74. what is dataset?
75. What happens when confusing action happen?
76. What is the basic principle of relay module?
77. What is the main objective of smart city?
78. How many device we are operate from this project?
79. Can we use this idea in India?
80. Is there any kind of modification needed?
81. Is this type of smart city implementation done elsewhere across the globe?
82. How to get gesture?
83. What do mean by action?
84. How many action we have use?
85. How to display gesture?
86. What is data?
87. How to normalize data?
88. What do mean by Dynamic?
89. How to stored Dynamically data?
90. What is dictionary?
91. How to comparing two gesture?
92. How to build the matrix?
93. How to data stored in dictionary?
94. How to data access through the dictionary?
95. How is it going to reduce human effort?
96. What electronic components do you'll know?
97. How many algorithm we have to use?
98. How much is it going to cost when being implemented in real word?
99. Is there any kind of modification needed?
100. How are you helping the society through this?
101. What are the employment opportunities for the upcoming generation?



23. Water Treatment System

1. What do you mean by water purifier?
2. Why does these items used shown in the experiment?
3. What other item can be used instead of the charcoal in the experiment?
4. What is the use of cotton ball?
5. What is the used of clean sand?
6. What is the use of small stones?
7. What is charcoal?
8. What is the use of activated charcoal?
9. Why we make such type of water purifier if you can find technological filters nowadays?
10. What is the principle of this model?
11. What we can measure of the water after passed threw this method?
12. Which range of T.D.S. is ideal of drinking water?
13. How much water can purified per hour?
14. Is there anything that can replace the clean sand?
15. How many days we have to change the items in the bottle?
16. Is this purifying method also works in salt water?
17. Can we drink this purified water?
18. Can we add other thing(material) in water treatment system?
19. Can we use pure charcoal instead of activated charcoal?
20. If we use cotton balls as the 3rd layer then how filter work?
21. Can we use a piece of cotton instead of cotton balls?
22. Can we use crushed stones in place of small stones?
23. Can we use clean soil in place of clean sand?
24. What is the aim of using activated charcoal?
25. What is the different between activated charcoal and inactivated charcoal?
26. Does these whole system work ?
27. How many stages prepare in the water purifierification system?
28. Which type of basic material used for making purifier?
29. Other systems in the market is more effective than Which type of people used these systems ?
30. What do you do for the aware or marking your idea in batter way ?
31. Does water purifier , purified only impurities?
32. How about hard water and normal water purified in system ?
33. Which type of design is prepared by you ?
34. Does its change is available on water purifier ?
35. If you want to change anything in your design what it would be ?
36. If these is affordable in a price then why does not used by everyone?
37. If you want that everyone used ,what do you do about your project ?
38. Which type of area suitable for this project?
39. Does your purifier have any trouble while it's working?
40. How water purifier operat ?
41. Does it have any industrial purpose?
42. How much it cost if it's have an industrial design?
43. How many days take for making one model ?
44. If you're mentoring students for these projects how they react?
45. Does students have any trouble while making model ?
46. Which kind of trouble face when you explain to your students?
47. Does you apply this model any certain areas ?
48. How people react on basic water purifier model?
49. If we have 1lt. water , how much time take your water purifier to purify a water?
50. Which type of water is not suitable for purify in this design ?
51. If water with higher T.D.S this kind of purifier work normally or does it need modification ?
52. How much take a time to build such a model like this?
53. How much time to purified water in this system?
54. Is there need any manwork to operate this system continued?
55. Can we used this at large scale?
56. If we used this at large scale maximum how much ammount of water can purified by this system?



57. If we used at large scale is there any additions of new filters or new things?
58. How's it works at large scale?
59. Why we can't mix all things together in purifier?
60. Is there any scientific purpose to takes this type of thing?
61. If there is any scientific purpose then what is that?
62. At least how many times we can use this?
63. What is filtration?
64. Is this water purifier makes only water pure?
65. What is disinfection?
66. Scientifically there are how many steps in water purifier?
67. Which kind of reactions happens in this systems?
68. How much water in human body?
69. How much water in human brain?
70. How much water drinkable on earth?
71. What is the biggest source of water?
72. Which continent of the world has the most water?
73. What happens when you drink contaminated water?
74. What is the most basic thing to keep ourselves disease free?
75. How much water should a normal person drink during the day?
76. I'm going to use clean soil in this system. Is it works?
77. Can I use salty water instead of tap or dirt water?
78. If I use salty water then what happens?
79. Is this system is able to remove salt from water?
80. Is charcoal or activated charcoal both same?
81. What is a process to make activated charcoal?
82. What is the difference between charcoal and activated charcoal?
83. Why we can't use any other chemicals in this model?
84. Can we change filter order in bottle?
85. If we change filter order is this model works?
86. If we can't change filter order then why?
87. Is this project harmful or not?
88. If we make a mistake in doing this project, will we get an infection?
89. What is big advantage to use this method?
90. Which kind of vitamins we can get form pure water?
91. Which kind of minerals we can get from pure water?
92. Is there any age limit to use this model at home?
93. Is this model is risky for kids?
94. Why there are many filters in this system?
95. Does each of the filters we use to have a certain scale?
96. Can we use something in increasingly low proportions?
97. Can we use activated charcoal more and use small stones less than it?
98. Can we use this project for the public?
99. How likely is it that this model will be damaged?
100. If this model is damaged then everything should be new again?



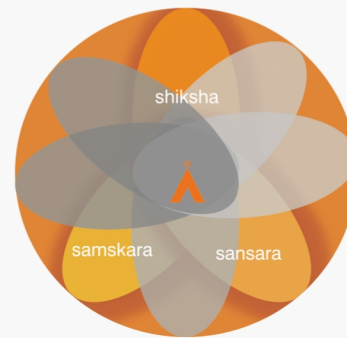
24. Women safety

1. What do you mean by surakshadevice ?
2. Why have you selected this project?
3. What is the main motive of this project?
4. How are you helping the society through this?
5. What are the five basic components of all electrical circuits?
6. What do you mean by resistors?
7. What are the different types of resistors?
8. What are the two main types of resistors?
9. what do you mean by fixed resistor?
10. what do you mean variable resistor ?
11. What is the SI unit of a resistor?
12. What do you mean by capacitor?
13. What are the different types of capacitors?
14. What is the basic principle of capacitor?
15. what are transistor ?
16. Where are transistors used in everyday life?
17. What does a transistor do and why is it important?
18. What are the two main applications of transistors?
19. How many types of transistors are there?
20. How is it beneficial for the society?
21. Can we use this idea in India?
22. What types of smart solutions have been taken through the project ?
23. What new technologies are being used in the project?
24. What is GIS system ?
25. what is IC ?
26. What is PCB ?
27. What is an active component ?
28. What are passsive components ?
29. which type of components are being used in this project ?
30. What type of passive components are used in this project ?
31. What is embedded devices ?
32. What is gps ?
33. What is gsm mode ?
34. What is micro controller ?
35. What is vibration sensor ?
36. What is mean by protocol of communication ?
37. What is ac signal ?
38. At which voltage dc devices will be operating?
39. Which devices are used to convert AC to DC ?
40. What are the types of microcontroller ?
41. What type of microcontroller we are using in this project ?
42. What is PIC microcontroller?
43. What is PIC microcontroller used for?
44. What is serial communication ?
45. What is a bit ?
46. What is module RX ?
47. What is the purpose of max232 ?
48. What is TTL ?
49. What do you mean by transistors ?
50. What is an amplifier ?
51. What is RS232 protocol ?
52. What is the range of ttlvoltage ?
53. What is the range of RS232 ?
54. What is the basic principle of microntroller ?
55. How does the first part i.e. the device with lady works ?
56. How does the second part i.e the device at the police station wil work ?
57. How will u implement this project on hardware level ?
58. what is an amplifier?
59. what is transistor amplifier ?
60. what is a sensor?
61. what are the different type of sensor ?
62. what type of sensor are we using in this project ?
63. What is the working principle of sensors?
64. what is the principle of sound sensor ?



65. Which sensor is commonly used for sound detection?
66. What is the use of vibration sensor?
67. How does a vibration sensor works?
68. What is breadboard?
69. What is a breadboard used for?
70. What is the basic principle of a sensor ?
71. Is it cost effective ?
72. What are the advantages of this technology?
73. How is it different for normal devices in market?
74. Where have you used gps in your project?
75. Where have you used the lcd in your project ?
76. What is the main objective of your project?
77. What are the main reasons behind your selection of this project?
78. Is there any kind of modification needed?
79. Will this idea require any special space to implement?
80. What are your plans for the future implementation?
81. how will you implement it in rural areas ?
82. how many lcd are needed ?
83. What are different types of software available where we can implment the hardware design ?
84. How is it beneficial for the society?
85. How can we use this project in the real world?
86. What is the reliability of this idea in real life?
87. How is it going to reduce human effort?
88. What is the cost of this project and how much will it cost for implementing it in real world?
89. Is it portable ?
90. What is the SI unit of a resistor?
91. What is the SI unit of capacitors ?
92. What is an NGO ?
93. In what aspects the NGO will help us ?
94. How is the NGO going to help us to implement this in rural areas?
95. Is there any specific NGO's in your mind ?
96. What is the cost of the device which will be with the lady ?
97. What is the cost of the device which will be at the police station?
98. What change will it bring in the rural areas ?
99. What benefits will the children at rural areas will get ?
100. Is there any special kind of requirement for this device?





Agastya is built on the ancient Indian wisdom of holistic education. Its uniqueness lies in the advocacy of Shiksha (education), encapsulating Samskara (values), towards an enriched Sansara (universe).

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