



Geethanjali Institute of Science and Technology



ELE-TIMES

Creative Tech Magazine Of The
Department Of
Electronics And Communication
Engineering

2021-2022
vol-II

Student co-ordinates:

A.Soumya IV ECE
D.Rajesh IV ECE
N.Sravani III ECE
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P.Apsana II ECE
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Faculty Co-Ordinator:

A.Hari Krishna
Asst Professor
Dept of ECE

Geethanjali Institute of Science and Technology

Vision of the Institute

To be a leader imparting in quality technical education, re-search and enterprising skills in pursuit of professional excellence

Mission of the Institute

- To promote quality education & technical skills to meet the industry requirements.
- To incorporate team work, leadership skills & lifelong learning.
- To facilitate career development & higher education assistance.
- To encourage innovative ideas for research & development and entrepreneurship for societal needs
- To inculcate ethical responsibility & human values

Department of Electronics and Communication Engineering

Vision of the Department

To achieve academic excellence in the field of Electronics and Communication Engineering and to produce meritorious engineers with human values by imparting high quality technical education.

Mission of the Department

- To create efficient Electronics and Communication Engineers to meet the current and future demands of industry and society with ethical values.
- To instil the quality of leadership and entrepreneurship in students.
- To elevate the spirit of innovation and creativity among students towards research and development.
- To provide industry oriented learning for empowering and facilitating the learner through industry institute interaction and leadership qualities.
- To promote participation in research and extension activities for addressing social needs by providing value based education.

Geethanjali Institute of Science and Technology

Program Educational Objectives (PEOs)

PEO-I: Futuristic Learning:

Graduates will attain excellence in the field of Electronics and Communication Engineering through lifelong learning process by imbibing the new technologies.

PEO-II: Career Development:

Graduates will become successful engineers or researchers or entrepreneurs with social responsibilities.

PEO-III: Professionalism:

Graduates will excel as estimable engineers with ethics, effective communication and leadership skills.

Program Specific Outcomes (PSOs)

PSO_1 Domain Specific Knowledge :

Implement electronic systems related to Electronics Devices & Circuits, VLSI, Signal processing, Microcomputers, Embedded and Communication Systems to fulfill the solutions to real world challenges.

PSO_2 Hardware Product Development :

Apply the software and hardware tools in Analog and Digital Electronic circuit design to address complex Electronics and Communication engineering problems.

Geethanjali Institute of Science and Technology

Program Outcomes (POs)

PO_1 Engineering knowledge:

Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO_2 Problem Analysis:

Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO_3 Design/development of solutions:

Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO_4 Conduct investigations of complex problems:

Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO_5 Modern tool usage:

Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO_6 The engineer and society:

Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO_7 Environment and sustainability:

Understand the impact of the professional engineering solutions in societal & environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO_8 Ethics:

Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO_9 Individual and team work:

Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

From the HOD's table

The Department of Electronics and Communication Engineering is committed to render-quality and professional pedagogy to pioneering engineers. The Department magazine exemplifies the voyage transverse and exhibits the technical skills of our students. Congratulations to the editorial team for their determined efforts in bringing out this edition of technical magazine. I am proud to see that the students of our department have put in appreciable effort into creating the magazine. It is good to see that today's generation has not lost its literary roots, despite the perpetual efforts of e-Technology to extinguish the flames of the written word. This e-magazine is an exceptional proof that the literary flame is burning bright. I look forward to seeing the juniors taking up the reigns of this e- magazine in future, so that this tradition remains eternal.

All the best students!



Dr.U.PENCHAL REDDY
HOD,Dept of ECE.

Engineering Made Simple!

Understand the basics of the components

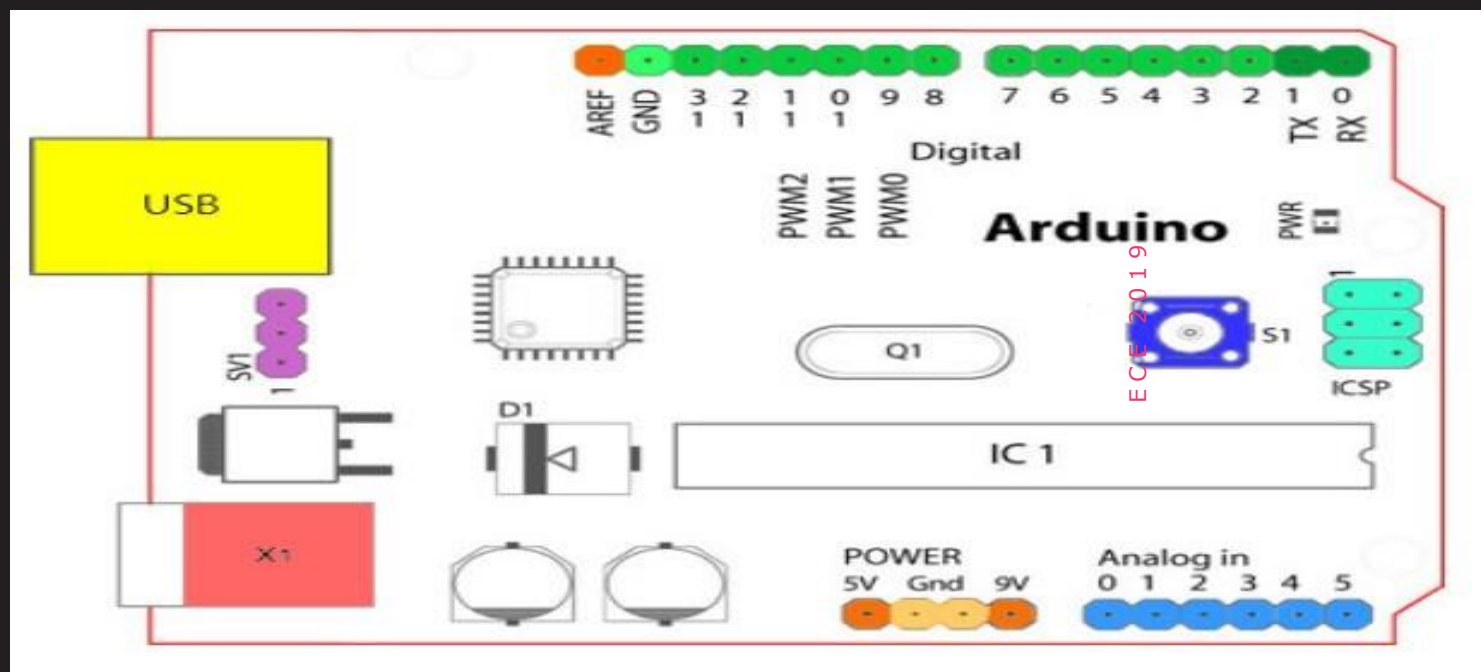
- THANNIRU VENKATA SUSMITHA ECE C II year (2021-22)

ARDUINO UNO

The **Arduino Uno** is an open-source microcontroller board based on the Microchip ATmega328P microcontroller (MCU) and developed by Arduino.cc and initially released in 2010. The microcontroller board is equipped with sets of digital and analog input/output (I/O) pins that may be interfaced to various expansion boards (shields) and other circuits. The board has 14 digital I/O pins (six capable of PWM output), 6 analog I/O pins, and is programmable with the Arduino IDE (Integrated Development Environment), via a type B USB cable. It can be powered by a USB cable or a barrel connector that accepts voltages between 7 and 20 volts, such as a rectangular 9-volt battery. While the Uno communicates using the original STK500 protocol, it differs from all preceding boards in that it does not use a FTDI USB-to-UART serial chip.



ARDUINO UNO R3



Starting clockwise from the top center:

- Analog Reference pin (orange)
- Digital Ground (light green)
- Digital Pins 2-13 (green)
- Digital Pins 0-1/Serial In/Out - TX/ RX (dark green) - These pins can- not be used for digital i/o (digital- Read and digitalWrite) if you are also using serial communication (e.g. Serial.begin).
- Reset Button - S1 (dark blue)
- In-circuit Serial Programmer (blue- green)
- Analog In Pins 0-5 (light blue)
- Power and Ground Pins (power: orange, grounds: light orange)
- External Power Supply In (9-12VDC) - X1 (pink)
- Toggles External Power and USB Power (place jumper on two pins closest to desired supply) -

- SV1 (purple)
- USB (used for uploading sketches to the board and for serial communication between the board and the computer; can be used to power the board) (yellow)

ADVANTAGES:

- Inexpensive
- Cross-platform
- Simple, clear programming environment
- Open source and extensible software

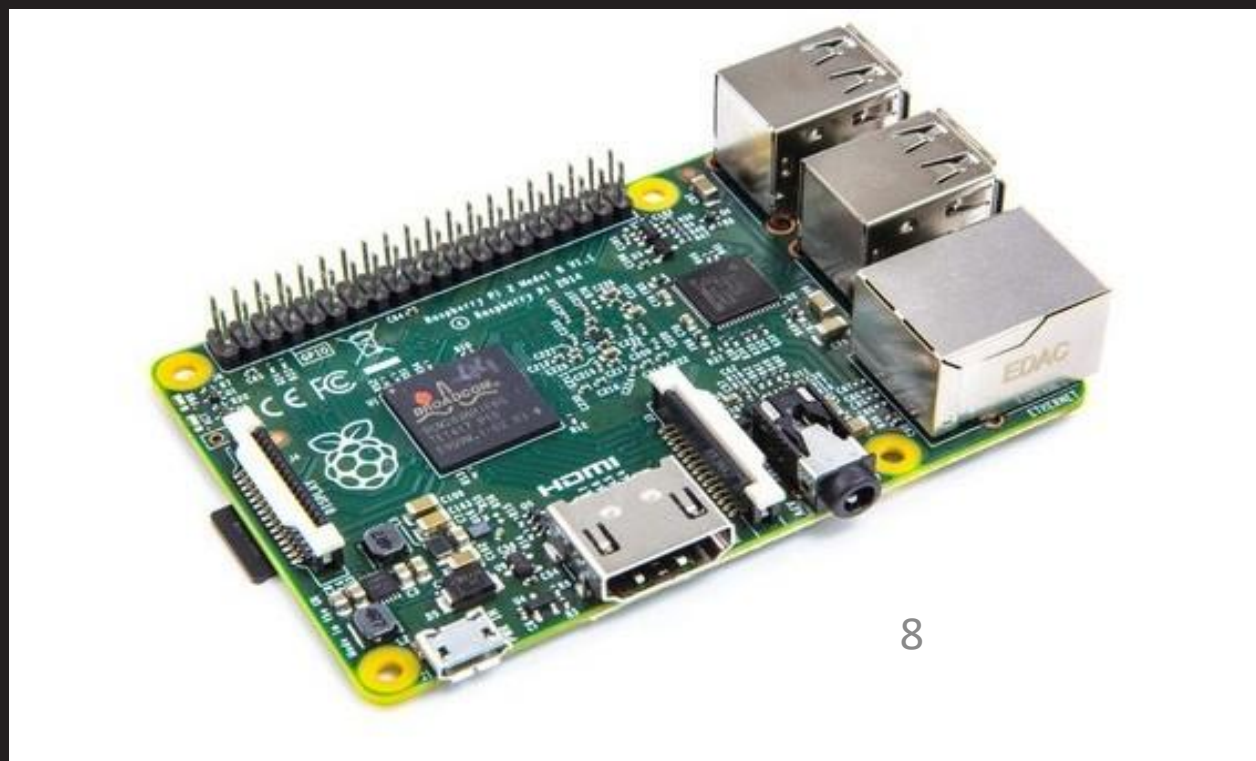


Raspberry Pi

A small and affordable computer that you can use

-SHAIK MASEERA TABASUM ECE C II year(2021-2022)

The Raspberry Pi is a series of small single-board computers developed in the United Kingdom by the Raspberry Pi Foundation to promote teaching of basic computer science in schools and in developing countries. The Raspberry Pi launched in 2012, and there have been several iterations and variations released since then. The original Pi had a single-core 700MHz CPU and just 256MB RAM, and the latest model has a quad-core CPU clocking in at over 1.5GHz, and 4GB RAM. The price point for Raspberry Pi has always been under \$100 (usually around \$35 USD), most notably the Pi Zero, which costs just \$5. The Raspberry Pi is a very cheap computer that runs Linux, but it also provides a set of GPIO (general purpose input/output) pins, allowing you to control electronic components for physical computing and explore the Internet of Things (IoT). The Raspberry Pi operates in the open source ecosystem: it runs Linux (a variety of distributions), and its main supported operating system, Pi OS, is open source and runs a suite of open source software. The Raspberry Pi Foundation contributes to the Linux kernel and various other open source projects as well as releasing much of its own software as open source



Two 5V pins and two 3V3 pins are present on the board, as well as a number of ground pins (0V), which are unconfigurable. The remaining pins are all general purpose 3V3 pins, meaning outputs are set to 3V3 and inputs are 3V3-tolerant.

Outputs:

A GPIO pin designated as an output pin can be set to high (3V3) or low (0V).

Inputs:

A GPIO pin designated as an input pin can be read as high (3V3) or low (0V). This is made easier with the use of internal pull-up or pull-down resistors. Pins GPIO2 and GPIO3 have fixed pull-up resistors, but for other pins this can be configured in software.

More:

As well as simple input and output devices, the GPIO pins can be used with a variety of alternative functions, some are available on all pins, others on specific pins.

PWM (pulse-width modulation)

- Software PWM available on all pins
- Hardware PWM available on GPIO12, GPIO13, GPIO18, GPIO19

SPI

- SPI0: MOSI (GPIO10); MISO (GPIO9); SCLK (GPIO11); CE0 (GPIO8), CE1 (GPIO7)
- SPI1: MOSI (GPIO20); MISO (GPIO19); SCLK (GPIO21); CE0 (GPIO18); CE1 (GPIO17); CE2 (GPIO16)

I2C

- Data: (GPIO2); Clock (GPIO3)
- EEPROM Data: (GPIO0); EEPROM Clock (GPIO1)

Serial

- TX (GPIO14); RX (GPIO15)



Recent Technologies

21st century has seen a huge boom in Technological development.

- KOKOLLU VENKATESH ECE A III year(2021-22)

5G TECHNOLOGY:

4G - the mobile network that's used around the world to make calls, send messages and surf the web. Now there are plans for 4G to be replaced by 5G. 5G – a new, faster network that has the potential to transform the internet. 5G is a software defined network – it means that, while it won't replace cables entirely, it could replace the need for them by largely operating on the cloud instead. This means it will have a 100x better capacity than 4G which will dramatically improve internet speed. For example, to download a two-hour film on 3G would take about 26 hours, on 4G you'd be waiting 6 minutes and on 5G you'll be ready to watch your film in just over three and a half seconds. But it's not just internet capacity that will be upgraded. Response times will also be much faster.

HYPERLOOP:

Billed as the fastest way to cross the surface of the earth, hyperloop represents the greatest leap in transport infrastructure for generations. With



passengers sitting in pods that travel at airline speed through pressurized tubes using electric propulsion and magnetic levitation, the concept promises to slash journey times between major cities from several hours to a matter of minutes. While it may feel like science fiction, hyperloop is now on the cusp of becoming a reality. Hyperloop was first conceived in 2012 by Tesla and SpaceX founder, Elon Musk.



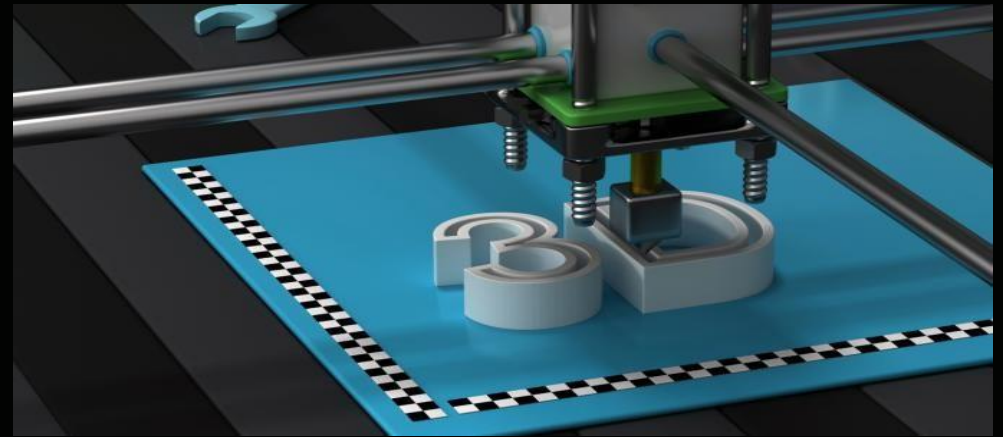
OLED:

Organic Light Emitting Diode is an advanced display technology made from thin films of light emitting organic materials. OLEDs are made by placing a series of organic thin films between two conductors. When electrical current is applied, a bright light is emitted. Currently OLED Displays are made by evaporating gases in a vacuum chamber, but in the future OLED can be made by Ink-Jet printing, a process that is quick and cost effective.

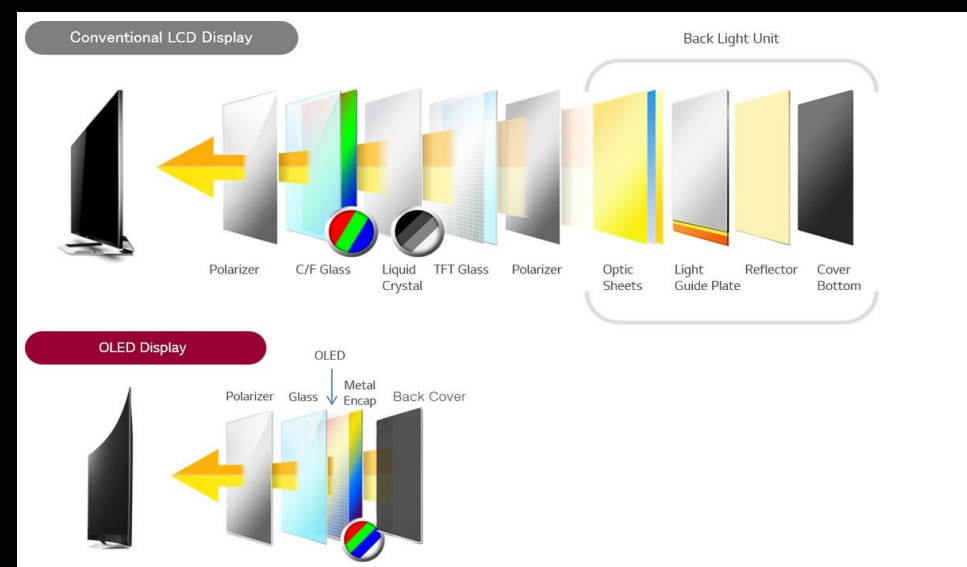
OLED Displays are simpler than LCDs, as they do not require any backlighting and filtering. OLEDs have many advances over LCDs. It has better contrast, higher brightness, faster refresh rates, lower power consumption and it has a simpler design that enables ultra-thin, flexible, foldable and transparent displays. OLEDs are considered by consumers and professionals alike to be the best displays ever.

3D PRINTING:

3D printing technology is already changing the way we produce objects from tools and toys to clothing and even body parts. 3D printing is part of a process known as additive manufacturing, where an object is created by adding material layer by layer. Additive manufacturing allows designers to create complex parts for machines, airplanes and cars at a fraction of the cost and time of standard means like forging, moulding and sculpting. Now, smaller consumer friendly 3D printers are bringing additive manufacturing to home and businesses. The first step in 3D printing is to create a blueprint of the object you want to print. You can use modelling software like Blender to create your own designs or you can refer to some websites for designing. Once you have finished design it's time to send it to the printer.



The most common material used in 3D printing is plastic. But the use of some other materials allows for the creation of amazing products beyond simple tools and toys. 3D printing food is becoming very popular and additive manufacturing has allowed for the creation of some intricate treats. In the medical world, doctors are testing bio-materials for regenerative medicine. By using patient's cells, doctors could 3D print small body parts like ears and noses. Some surgeons have even tested 3D printed organs for transplants. Recently, giant 3D printers in China, printed ten houses in just one day at a cost of less than \$5000 per house. Some printer has removable bioplastic spools in the back of the device almost like a string. When the printer receives the data, it pulls the material through a tube, melts it, and deposits it to the plate, where it instantly cools. The 3D object is created through layering where the printer will add one layer of the object at a time until you have a fully formed structure.



Student Project

Exoplanet Explore

A interactive research Document and Data analysis report on Extra-solar planets.

URL : exoplanetexplore.now.sh

- M.DEEPIKA ECE B III year (2021-22)

Why Exoplanets?

Earth is and has been our home since our existence. But not too far in the future! Don't you think we might migrate to a new home that is probably a new star system? They will help us answer one of the most fundamental questions in science and philosophy: are we alone? Current or next generation telescopes could very well identify terrestrial planets in the liquid water habitable zones of their planets that have atmospheric spectra indicating the presence of gases that would only exist in those combinations with the presence of life. Alternatively, we may find that life is much harder to find than we expect. This'll mean either that life is rare or that we don't understand its impacts on its surroundings well enough to detect it. Whatever happens, we'll learn something profound about our place in the universe.



The Project:

Exoplanet Explore is a Data driven Visual Analysis of Exoplanets, meaning that the project aims at analyzing Exoplanet visually using various visualization frameworks.

“I was a space geek since birth, I never stopped gazing at the sky and thinking about the stars and planets. It blows my mind if we think how miraculously small and alone we are in this infinitely expanding cosmos. I had the Kepler Telescope findings and NASA's official analytic data at my disposal. I barely had any knowledge about data visualization and analysis using programming. But the raw interest that I had in space exploration drove me through the learning process of programmatic data visualisation. I had a somewhat past experience in full stack software development. with all these skills and my enthusiasm I solely finished this project in a month. It was a wonderful, memorable experience” says TK Vishal.

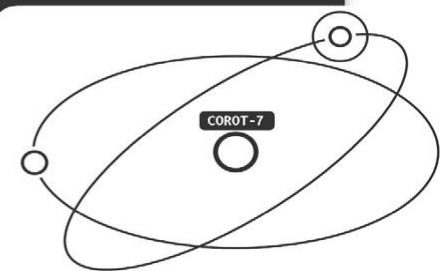
Exoplanet Explore

An Analysis report on Exoplanets

Made with and by TK Vishal.

[The Analysis](#)

Planet Name: CoRoT-7 b
Discovery Method: Transit



"You can learn about a topic even more deeply if you looked at it from another perspective, bursting out of my comfort zone and thinking about space exploration with programming constraints in my mind lead to the success of this project, therefore I loved every second sculpting this project from the scratch", he adds.

The Statistics:

The project started on Nov 30 2018 (6:15 PM) and finished on Dec 14 2018 (3:48 PM). The project underwent two phases. The analysis phase where the exoplanet data is researched and planned. The development phase where the analysis part is converted to beautiful visuals.

How does it work?

I don't want to go in depth technically, So, I've just listed the "stuff" that's used to make this project.

Tech Stack:

- D3.js (A Javascript Data Visualisation Library)
- VanillaJS {Just plain old Javascript}
- HTML, CSS (the skeleton and the make-up)
- Python (Heavy lifts the data and processes complex calculations)
- Pandas (A Python module to lift large data)
- Bulma (A CSS framework for fancy views)

The project won **Rs.10,000** and a place in the hall of fame at Hackerearth. It currently has a total of **2,204 users** all over the world. The analysis and the source code is open sourced on github at <https://github.com/sanvishal/Exoplanet-Explore>



- AdobeXD (A mockup making software)
- p5.js (A javascript canvas library)
- now.sh (free serverless hosting)

These individual components make up the entire project. Feel free to google to know more about them.

Besides these I made a chatapp that was used and loved by people in the campus. To know more about me, visit <https://tkvishal.now.sh>

Student Project

- O.KAVERI, N.SYAM, P.GAYATHRI
ECE III year (2021-22)

CLINICON

An intelligent Mini computerized Touch-and-display device which is programmed to provide medical surveillance in rural areas

The hardware device (CLINICON) which could make a huge difference over the rural areas, where the people have no idea over the diseases which they are exposed to, and also the areas which are still reported with absence of medical personal. The device is nothing but a microcomputer in which the symptoms of all possible diseases are included

into the program in audio format (local language). The device would have a micro-processor, a touch display and a network connectivity device as its major components. The device is provided with two buttons, Green and Red to proceed or decline with the procedure respectively. If an individual feel like he needs medical assistance, the green button is pressed and the procedure is begun. The speakers provided would recite the symptoms one by one and wait for the input from the user. Based on the symptoms which are provided the program starts to scrutinize itself and thus, an approximate confirmation of the disease is obtained. The device would provide home remedies for common devices though a PRINTER which prints the prescription. Whereas, if the patient is found to have a much serious disease, a message is sent to the nearest Public Health Centre for help and to prevent further spread of the disease.



The selected rural area with a population (say 100) can be provided with this tool, which can potentially serve as a Medical consultant. The given hardware has an LCD display with a number pad.

The design and construction of the device can be segmented into input, output and the processing unit. The input from the user is received through a keypad (Green and Red buttons). A camera and A microphone is also present in order to take a picture of the patient and the microphone to record his/her understanding about the disease. The processing unit which consists of a microprocessor, is where the inputs from the user and saved and processed. The approximation of the disease is confirmed in the processing unit. The processed data is then transmitted to the nearby PHC (Public Health Centre) through the output unit, which consists of a Network connectivity device (Wi-fi modules).

**LIST OF STUDENTS PLACEMENT IN 2021-2022**

S.No	Student Name	Enrollment No	Employee Name	Appointment No
1	182U1A0410	BAKEERU VIJAY KUMAR	MPHASIS	325000
2	182U1A0413	BEEGALA MALYADRI HARI KRISHNA	MPHASIS	325000
3	182U1A0416	BEVARA LAVANYA	MPHASIS	325000
4	182U1A0419	BODIPUDI PRIYANKA	MPHASIS	325000
5	182U1A0424	CHANDOLU GIRIDHAR	MPHASIS	325000
6	182U1A0426	CHEBROLU SAI KRISHNA	MPHASIS	325000
7	182U1A0427	CHEBROLU VAMSI KRISHNA	MPHASIS	325000
8	182U1A0431	CHINNI PUSHPA LATHA	MPHASIS	325000
9	182U1A0432	DAGGUMATI VENKATA SATYA KARTHIK	MPHASIS	325000
10	182U1A0433	DANDU YASHWANTH	MPHASIS	325000
11	182U1A0444	GANDAVARAPU SRIVIDYA	MPHASIS	325000
12	182U1A0421	BONIGI JOSHNA	MPHASIS	325000
13	182U1A0446	GANDRA SWARNAMALA	MPHASIS	325000
14	182U1A0448	GONIPALLI LAKSHMI SRAVYA	MPHASIS	325000
15	182U1A0449	GUDI VAMSI	MPHASIS	325000
16	182U1A0429	CHEDELLA MAHITHA	MPHASIS	325000
17	182U1A0456	JUVVIGUNTA SILPA	MPHASIS	325000
18	182U1A0445	GANDAVARAPU SWETHA	MPHASIS	325000
19	182U1A0458	KAKU SUPRIYA	MPHASIS	325000
20	182U1A0459	KALIKI SAI KRISHNA	MPHASIS	325000
21	182U1A0460	KALLURU DEEPA	MPHASIS	325000
22	182U1A0462	KANDIKATTU SRAVAN KUMAR	MPHASIS	325000
23	182U1A0463	KANNA KAVERI	MPHASIS	325000
24	182U1A0454	GUTTHI MEGHANA	MPHASIS	325000
25	182U1A0467	KATAVURI CHANDRAKALA	MPHASIS	325000
26	182U1A0468	KATTA VIVEK	MPHASIS	325000
27	182U1A0471	KODAVALA AKHILA	MPHASIS	325000
28	182U1A0465	KASULA SAI SRICHARAN	MPHASIS	325000
29	182U1A0479	MACHAVOLU DIVYA SATHVIKA	MPHASIS	325000
30	182U1A0480	MADALA MOUNIKA	MPHASIS	325000
31	182U1A0482	MALE JAYADEEP	MPHASIS	325000
32	182U1A0483	MANDE NIMISHA SAI	MPHASIS	325000
33	182U1A0485	MARIMUTHU KRISHNAVENI	MPHASIS	325000
34	182U1A0486	MEESALA DEVI PRIYA	MPHASIS	325000
35	182U1A0472	KODAVALA NIKHITHA	MPHASIS	325000
36	182U1A0493	MURARISSETTY V S S M SUBHASH TEJA	MPHASIS	325000
37	182U1A0476	KONIJETI LAKSHMI PRAGNA	MPHASIS	325000
38	182U1A04A4	NELLORE SIVA VENKATA YASWANATH	MPHASIS	325000

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49	182U1A04C3	PUVVADA HEMA SUKEERTHANA	MPHASIS	325000
50	182U1A04A3	NEELISETTY BASAVA MEGHANA	MPHASIS	325000
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57	182U1A04E1	SHAIK SABREEN	MPHASIS	325000
58	182U1A04E5	SHAIK SHABANA	MPHASIS	325000
59	182U1A04E4	SHAIK SAMEER	MPHASIS	325000
60	182U1A04E9	SHAIK WASEEM AKRAM	MPHASIS	325000
61	182U1A04F4	SUDALAGUNTA VENKATA JYOSHNA	MPHASIS	325000
62	182U1A04F6	SYED MOHSENA BEGUM	MPHASIS	325000
63	182U1A04F9	SYED NAYEM	MPHASIS	325000
64	182U1A04F3	SREEMANTULA MUKESH KUMAR	MPHASIS	325000
65	182U1A04F7	SYED NAFEESA	MPHASIS	325000
66	182U1A04G9	VAKATI MUNIRAJA	MPHASIS	325000
67	182U1A04H1	VEMA VENKATA MAHESH	MPHASIS	325000
68	182U1A04G5	THALAPAREDDY NIRANJAN REDDY	MPHASIS	325000
69	182U1A04H0	VALLURU SRAVANTHI	MPHASIS	325000
70	182U1A04I9	BODIPUDI PRIYANKA	TECH MAHINDRA	325000
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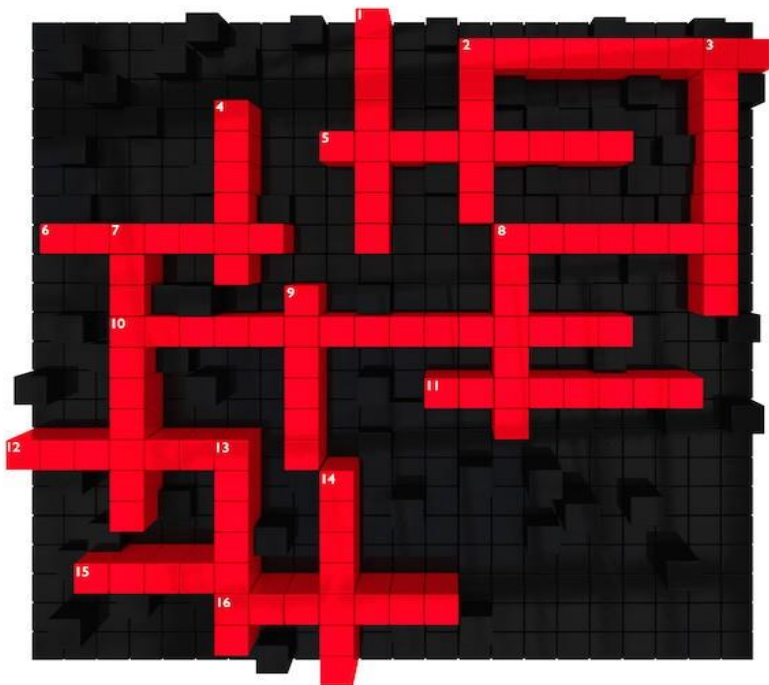
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85	182U1A0479	MACHAVOLU DIVYA SATHVIKA	TCS NINJA	336000
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102	182U1A0433	DANDU YASHWANTH	WIPRO	350000
103	182U1A0445	GANDAVARAPU SWETHA	WIPRO	350000
104	182U1A0460	KALLURU DEEPA	WIPRO	350000
105	182U1A0462	KANDIKATTU SRAVAN KUMAR	WIPRO	350000
106	182U1A0479	MACHAVOLU DIVYA SATHVIKA	WIPRO	350000
107	182U1A0486	MEESALA DEVI PRIYA	WIPRO	350000
108	182U1A04C1	PUNATI MAHITHA	WIPRO	350000
109	182U1A04C7	SADHU VENKATA CHARITHA	WIPRO	350000
110	182U1A04E4	SHAIK SAMEER	WIPRO	350000
111	182U1A04E9	SHAIK WASEEM AKRAM	WIPRO	350000
112	182U1A04F7	SYED NAFEESA	WIPRO	350000
113	182U1A04H0	VALLURU SRAVANTHI	WIPRO	350000
114	182U1A0418	BODDUKURU NAVYASRI	WIPRO	350000
115	182U1A0436	DESIREDDY SUSMITHA	WIPRO	350000
116	182U1A0475	KONIDALA MUNI VARUN	WIPRO	350000
117	182U1A0487	MENTA VENKATA LAKSHMI MANASA	WIPRO	350000
118	182U1A0491	MULLA VINAY	WIPRO	350000
119	182U1A0495	MYNAMPATI SUMALATHA	WIPRO	350000
120	182U1A04A2	NAVEENKUMAR BHAVANA	WIPRO	350000
121	182U1A04D0	SATRAPALLI TEJASWINI	WIPRO	350000
122	182U1A04D3	SHAIK ABDUL AZEEZ	WIPRO	350000

123	182U1A04F1	SOLETY MOUNIKA	WIPRO	350000
124	182U1A04H3	VUKOTI MANOJ	WIPRO	350000
125	192U5A0407	KOMMERLA SIVAKESAVA VEERAVASANTHARAYA	WIPRO	350000
126	192U5A0413	RACHALA ANUSHA	WIPRO	350000
127	182U1A04H2	VIDUPULAPATI GOKUL KUMAR	WIPRO	350000
128	192U5A0410	MUNISWAMY KANAKA DURGA	WIPRO	350000
129	182U1A0309	CHAVADAM SUDARSHAN	WIPRO	350000
130	182U1A0349	SHAIK NOOR AHAMED	WIPRO	350000
131	192U5A0306	SHAIK SULTHAN BASHA	WIPRO	350000
132	182U1A04F1	SOLETY MOUNIKA	TATA ELXSI	350000
133	182U1A0488	MOHAMMAD AZEEZA ANJUM	AUROPPRO	350000
134	182U1A0431	CHINNI PUSHPA LATHA	AUROPPRO	350000
135	182U1A04B1	PANDYAN LAKSHMI PRIYA	AUROPPRO	350000
136	182U1A0479	MACHAVOLU DIVYA SATHVIKA	AUROPPRO	350000
137	182U1A0424	CHANDOLU GIRIDHAR	AUROPPRO	350000
138	182U1A04F7	SYED NAFEESA	AUROPPRO	350000
139	182U1A04G4	TALLURI SARAN TEJA	AUROPPRO	350000
140	182U1A0454	GUTTHI MEGHANA	AUROPPRO	350000
141	182U1A04F6	SYED MOHSENA BEGUM	AUROPPRO	350000
142	182U1A04D5	SHAIK AZGAR ALI	AUROPPRO	350000
143	182U1A0418	BODDUKURU NAVYASRI	AUROPPRO	350000
144	182U1A0476	KONIJETI LAKSHMI PRAGNA	AUROPPRO	350000
145	182U1A0413	BEEGALA MALYADRI HARI KRISHNA	AUROPPRO	350000
146	182U1A04F4	SUDALAGUNTA VENKATA JYOSHNA	AUROPPRO	350000
147	182U1A0486	MEESALA DEVI PRIYA	AUROPPRO	350000
148	182U1A0309	CHAVADAM SUDARSHAN	AUROPPRO	350000
149	182U1A04D8	SHAIK MUTHAHAR	AUROPPRO	350000
150	182U1A0429	CHEDELLA MAHITHA	VISTEX	360000
151	182U1A04C7	SADHU VENKATA CHARITHA	VISTEX	360000
152	192U5A0304	SHAIK ALTHAF	VISTEX	360000
153	182U1A04E9	SHAIK WASEEM AKRAM	INFOSYS	360000
154	182U1A0429	CHEDELLA MAHITHA	INFOSYS	360000
155	182U1A04C7	SADHU VENKATA CHARITHA	INFOSYS	360000
156	182U1A04F1	SOLETY MOUNIKA	INFOSYS	360000
157	182U1A0465	KASULA SAI SRICHARAN	INFOSYS	360000
158	182U1A04F7	SYED NAFEESA	INFOSYS	360000
159	182U1A0418	BODDUKURU NAVYASRI	INFOSYS	360000
160	182U1A0421	BONIGI JOSHNA	INFOSYS	360000
161	182U1A0321	KALAVAKURI RAKESH	INFOSYS	360000
162	182U1A04B6	PESALA SUPRIYA	INFOSYS	360000
163	182U1A0476	KONIJETI LAKSHMI PRAGNA	18 INFOSYS	360000
164	182U1A04G4	TALLURI SARAN TEJA	INFOSYS	360000

Crossword Puzzle

Test the level of your understanding in the basics of Electronics

- M.VINAY ECE IV year (2021-22)



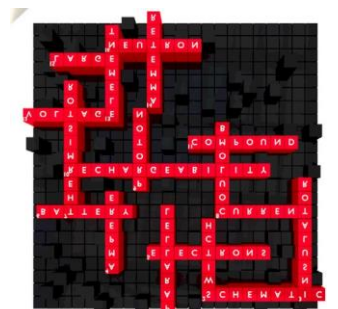
Across

2. A diagram that shows the electrical connections of the electronic components
5. Current is considered to be the movement of _____.
6. A voltage source that converts chemical energy to electrical energy
8. A flow of electric charge
10. A characteristic of a secondary cell
11. A material that is composed of a mixture of elements
12. The term used to designate Electrical pressure

15. A short circuit will have a _____ current flow.
16. The part of an atom that has no electric charge

Down

1. A voltmeter is used in _____ with the circuit.
2. A device that opens or completes an electrical path
3. A material that opposes the movement of free electrons
4. One coulomb passing a point in one second
7. A resistive component that is designed to be temperature sensitive
8. A unit of charge that contains 6.25×10^{18} electrons
9. An atom's atomic number is determined by its number of _____.
13. A substance that is found only in its pure form
14. It is used to measure current.

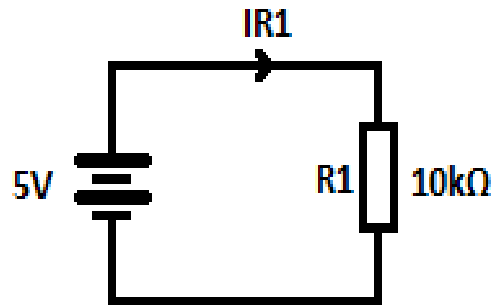


Quiz

-M.KAVAYA LV YEAR ECE-B(2021-2022)

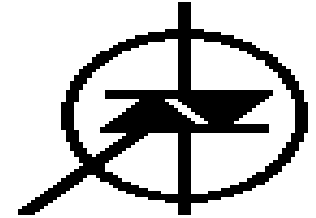
What is the value of I_{R1} (current through $R1$)?

- 1) $I_{R1} = 0.1\text{mA}$
- 2) $I_{R1} = 5\text{mA}$
- 3) $I_{R1} = 0.5\text{mA}$
- 4) $I_{R1} = 1\text{mA}$



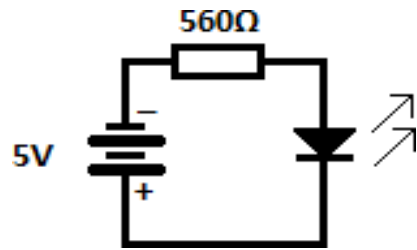
What type of transistor is this one ?

- 1) Triac
- 2) Thyristor
- 3) NPN
- 4) PNP



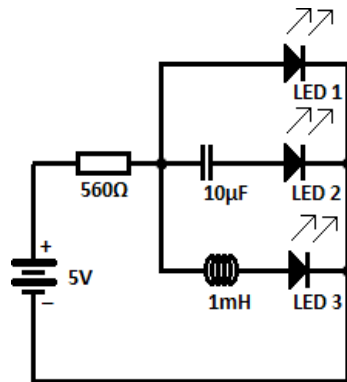
Will the LED turn on?

- 1) YES
- 2) NO



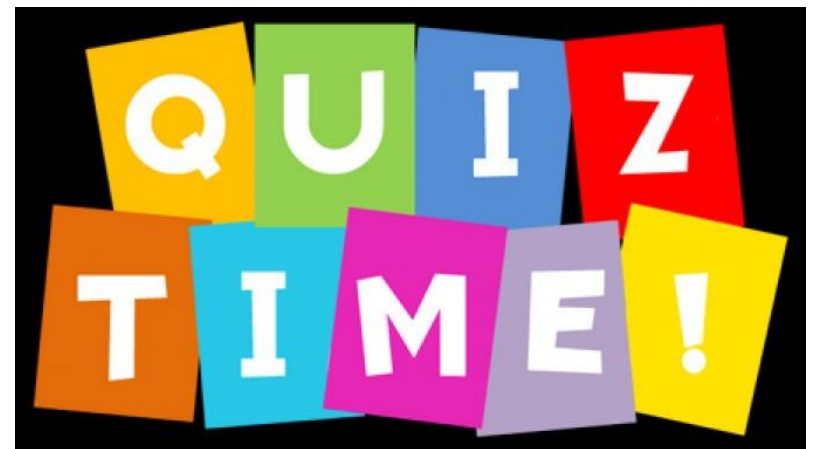
Which LED will turn ON?

- 1) only LED 1
- 2) only LED 2
- 3) LED 1 and LED 3
- 4) LED 1 and LED 2



A bipolar transistor usually has:

- 1) 2 Terminals
- 2) 3 Terminals
- 3) 4 Terminals
- 4) 5 Terminals



Once a Holy man was asked “What is Forgiveness”. He replied, “It is the fragrance that the flowers give when they are crushed”. Teenage is the age life teaches you what it really is but hold on for you have the strongest of hearts. Learn to forgive for we all have sinned Whatever that you’re going through now is going to pass. You might struggle, but you will last <3



Geethanjali Institute of Science
and Technology