JULY-AUGUST 2022

NEWSLETTER

PART2

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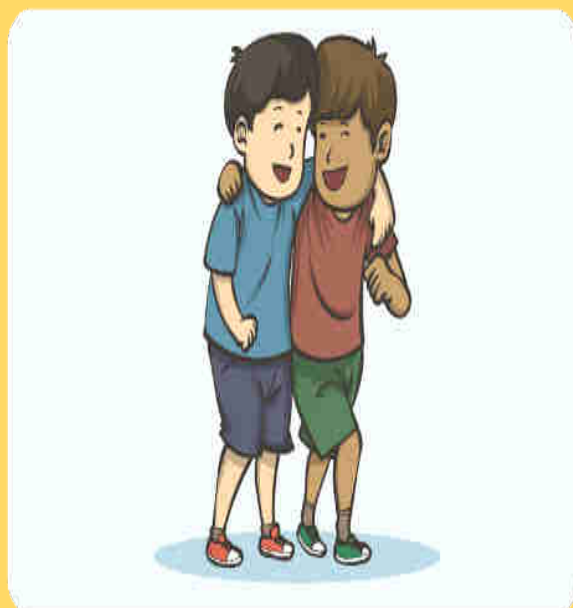**DELHI PUBLIC SCHOOL, SECTOR-84 GURUGRAM**

Experiential Learning

KINDERGARTEN
MY BEST FRIEND- 'A friend in need is a friend indeed'.
Students of Kindergarten shared their feelings about their best friends with their peers and teachers during the theme- based session 'All About Me' in their EVS class.

EXPEREINTIAL LEARNING

HINDI- KITE MAKING

हिंदी भाषा के वर्ण का ज्ञान छात्रों को गतिविधि के माध्यम से प्रदान किया गया। छात्रों ने कक्षा में रंगीन कागज से 'प' से पतंग बनाई।

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EXPERIENTIAL LEARNING

ENGLISH

Students of kindergarten enjoyed the ' JELLYFISH ACTIVITY' which was covered under cursive letter j. They learnt the formation of the cursive letter 'j' through this activity. Students had fun doing this activity as they made jelly fish with the help of colourful papers.

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EXPERIENTIAL LEARNING

GRADE I

"It's like everyone tells a story about themselves inside their own heads"
It's time for those stories to be shared with friends. Our little storytellers told a story about themselves - where they are the superheroes saving somebody's life or an adventurer exploring an unknown island or just a simple story about a vacation. The most challenging part of the story telling session was - it had to begin with naming words (animal/ bird/ person/ place/ thing) that would start with the first letter of the child's name.
Children narrated their stories with full enthusiasm and excitement, along with their props.
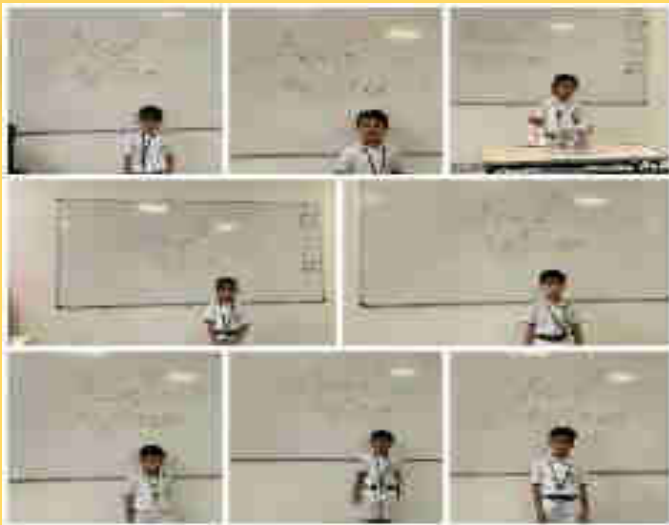
EXPERIENTIAL LEARNING

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EXPERIENTIAL LEARNING

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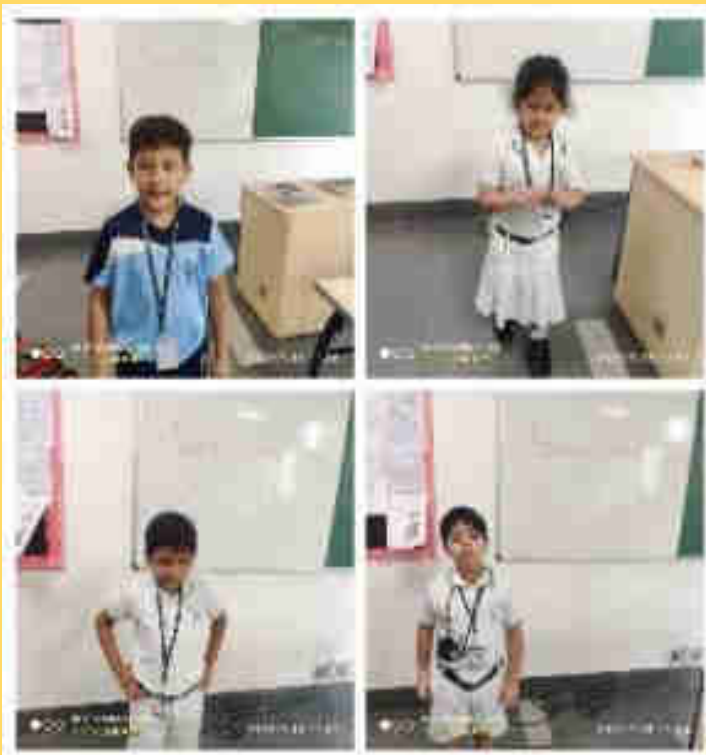
EXPERIENTIAL LEARNING

GRADE: I

Good hand washing is the first line of defence against the spread of many illnesses and it is more so important for our young kids at school. The students of Grade I learnt the importance of washing hands through an interesting activity with soap and pepper where they saw the germs (pepper) scooting away with the touch of a soap. The teachers encouraged students to wash their hands frequently with soap and water.

EXPERIENTIAL LEARNING

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EXPERIENTIAL LEARNING

GRADE: IV Science

"I hear and I forget. I see and I remember. I do and I understand."

Confucius was right in quoting these words, Experiential learning is the best form of learning, and while teaching Science, we ensure that the child learns either by observing or by doing. Students of grade IV read about Soil and States of Matter in their Science textbook and came forward with an assortment of experiments to support their understanding. Through their experiments, they showed different types of soil, their texture of particles, their binding capacity, water holding capacity and their uses. Similarly, few students picked the topic of 'States of Matter' and demonstrated different experiments to prove why solids, liquids and gases have differences in terms of fixed/ fluctuating shape, fluidity, volume and states. Students loved to present the concept of solution, solvent, solute and saturated solution. Again, the topic of interconversion of different states of matter was scientifically explained by them. The entire presentation was very lively as the students were taking initiative to explain the facts and the teachers extended their support as facilitators.

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EXPERIENTIAL LEARNING

GRADE: IV Science

Children can learn to live in harmony with nature only when they get a chance to know about the role and contribution of even the tiniest living being existing on earth. This time, we picked 'Silkworms' as our subject. We were amazed to see the details brought by the young environmentalists of grade 4! From drawing to 3-D models and the PPT presentations, these students extended their thought to present their facts in the most unique way. Though the entire period revolved around the same topic of Lifecycle of a Silkworm, each presentation was different! We, on behalf of our whole school, extend our best wishes to these students and wish these great preservationists a bright future!

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EXPERIENTIAL LEARNING

Grade II English

Students made a face mask of their favourite animal, bird or person that resembled their own. The students gave a presentation in the class describing their choice and shared more about their chosen character. This truly amazing and insightful session made the class aware of some very interestingly amazing facts about animals.

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EXPERIENTIAL LEARNING

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EXPERIENTIAL LEARNING

Grade II EVS

Second graders learnt about energy giving food, protective food and body building food in the chapter "Food we eat". They were then able to identify different groups of food and understand the meaning of a balanced diet.

They prepared a menu card for themselves with the details of different food items and to which food group they belong to. Their beautifully prepared menu cards were then displayed on the class board.

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EXPERIENTIAL LEARNING

GRADE: V Mathematics

Topic- Symmetry and Patterns

Students learnt about symmetry and reflection, Rotational symmetry and creation of patterns, by moving the figures drawn and cutted from the grid/graph paper. They studied clockwise and anticlockwise rotation and did it practically to understand complete rotation of 360 degrees about a fixed point. They also created interesting patterns with different shapes using translations, reflection, and rotation in symmetry.

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ECO CLUB ACTIVITY

'Nurture Nature': Tree Plantation Activity

When we plant a tree, we contribute towards building up the ecosystem. An awareness cum plantation Drive was taken up for the students, on 21st July 2022, as part of the Eco Club activity in the school premises. This effort of the club members was a step towards making the planet cleaner and greener. The mentors cared to explain to the students not only the importance of tree plantation, the techniques of planting but also the nurturing of the saplings as well.

Several saplings were planted by the students at the selected spots in the school as well as in the surrounding areas. Students displayed great enthusiasm as they dug out the soil to carefully place the saplings. The event served a purpose of hands-on experience apart from dispensing education and entertainment to our students.

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GREEN WARRIORS CLUB

"The creation of a thousand forests is in one acorn."

Mr.Vineet Vohra, a passionate volunteer environmentalist and the face of "Give Me Trees" visited the school to conduct an interactive session for the 'Green Warriors' Club members of grade I and II at DPS Sector 84, Gurugram.

He shared his experience and knowledge about trees and helped students learn about the medicinal values of different plants and ways of nurturing them. He educated them on how to prepare natural manure using vegetable and fruit peels.

He surprised the children with numerous amazing environmental facts about different types of trees. His passion towards the concern for Environmental wellbeing seemed inspiring for the students which ignited their thoughts and urged them to express their love for trees.

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'Pure Mathematics is, in its way, the poetry of logical ideas'.

Students of grade 5 and 6 were happy to learn about Magic Squares, which is indeed a recreational facet of Mathematics. Students were thrilled to know more about a special square array of numbers (usually positive integers) in which sums of the numbers in each row, each column, and both main diagonals are the same. In the beginning, they were given magic squares to find the magic secretly working behind it and later were asked to make one by themselves.
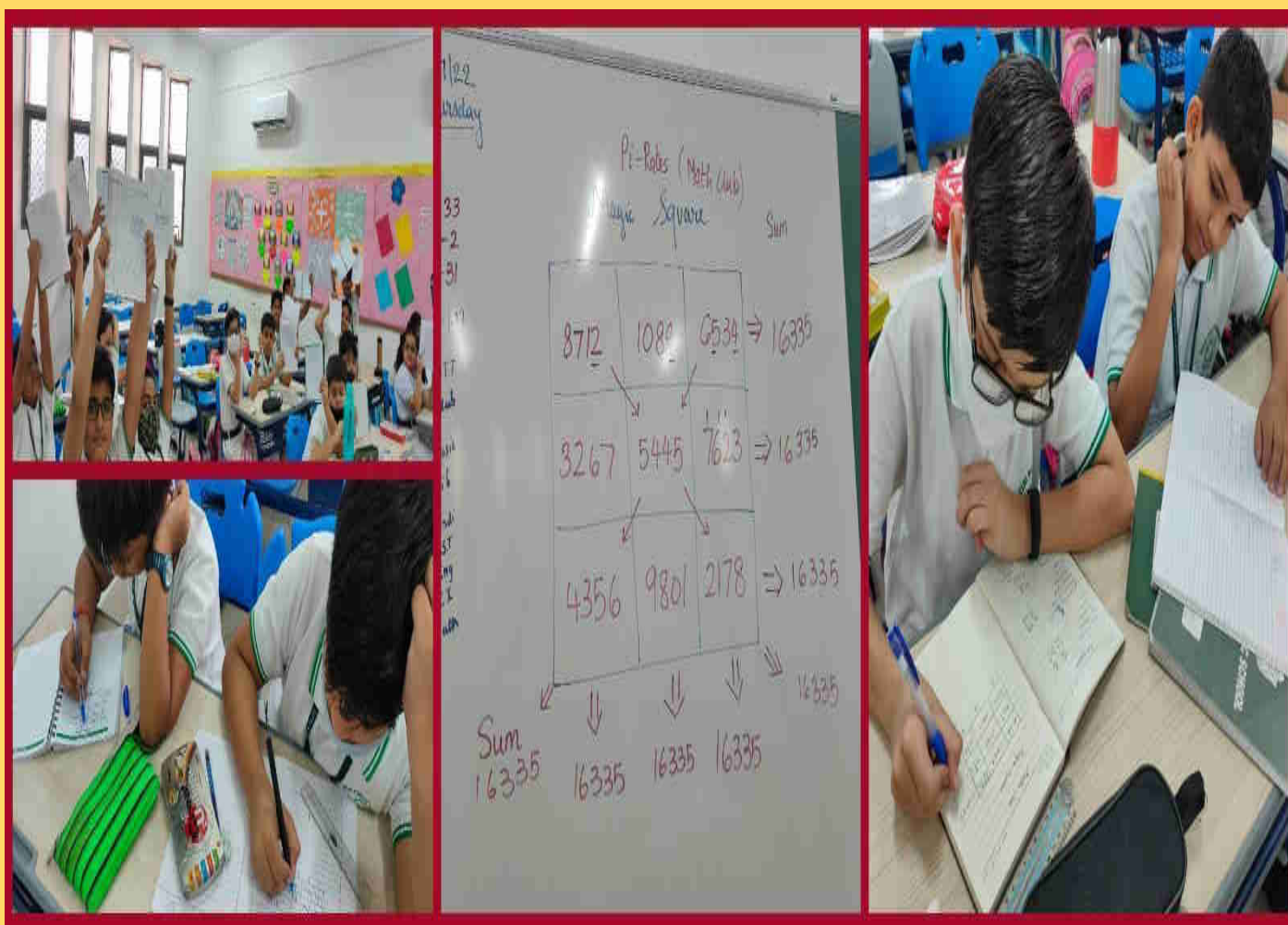
WIZ KIDS CLUB

Creating dreams

Our dreams and goals are what we aspire to be or do, which gives us a sense of meaning and purpose. Our dreams are something that we're passionate about. By following our dreams, we'll become a better and happier person.

Students of Grade 4 used Paint 3D to create projects to showcase their dreams and the outcome was mesmerizing.

WIZ KIDS CLUB

Preparing Quiz on Brand Logos of their favourite companies

The logo of a company is an emblem or visual mark that they choose to represent themselves. A logo, which is a small thing, has the ability to make a huge impact on any business. Students of Grade 5 used PowerPoint to create the Quiz on logos of their favourite companies and presented the same in front of their peers. They used their creativity skills to make the Quiz attractive and interactive. The session was a great learning experience apart from being a great way of integrating learning with play.

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ACHIEVEMENTS

24th Dr. Jigaro Kano Judo Championship

An Inter State 24th Dr. Jigaro KanoJudo Championship (2022-23) was conducted by District Judo Association at Deaf and Dumb children school Sec-14 GGN on July 24, 2022.

DPS-84 Gurugram participated in the championship where a total of 17 students (07 boys + 10 girls) participated in the championship. More than 500 students from various schools, states, districts and academies took part in the championship.

We are proud to announce that the students of DPS-84 Gurugram won 11 medals in the competition. In the boy's category 1 Gold, 1 Silver and 2 Bronze medals, and in the girl's category 2 Gold, 1 Silver, and 4 Bronze medals.

List of medals winners: (Boys category)

Lakshit Yadav   V-B – Gold

Medhansh Barak   IV-A – Silver

Shivaan Abrol   III-C – Bronze

Sidhant Mettal   IV-A – Bronze

(Girl's category)

Swara Sah   IV-C – Gold

Parnika Bathla   IV-B – Gold

Anya Aman   IV-B – Silver

Keerat Kaur   IV-B – Bronze

Navya Chandel   V-B – Bronze

Khyati Chauhan   V-B – Bronze

Swara Lal   V-C – Bronze

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ACHIEVEMENTS

COMMERCE FEST

Students of grade XI and XII DPS-84 participated wholeheartedly in the Commfiesta 2022 (Commerce Fest), held on 4th and 5 th of August, 2022. Students of DPS-84 actively participated in this Fest organised by the Department of Commerce at DPS – Rewari. Students took part in various inter-school competitions which were held during the fest, that included Shark Tank, Mad Ad, Commerce Quiz, Rocket Singh and Guru Bhai. The events were specially curated by the students, keeping in mind the real-world business needs that would enable them to think on their feet, ideate, collaborate, present their stand points, pitch, lobby and wriggle out of crisis.

The purpose of the commerce fest was to provide a platform for the students to exhibit their talents in various competitions and for gaining success in the fields of commerce and business. It also strived to enhance the commercial acumen of individuals from diverse disciplines. Our students participated in all the events and proved their mettle by earning second runners up position in the event ''Gurubhai''.

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ACHIEVEMENTS

COMMERCE FEST

The event provided an immense learning experience and exposure to the students as it was diligently organized and immensely appreciated by one and all.

TECHNOPHILE

Learning Journey

Made By: Angad Singh

What is a Learning Journey?

Learning Journey is the journey through which we learn things, make things, etc.

My learning journey is full of fun activities leading to explorations and innovations.

As suggested by the subject teacher, Ms Kusum Turan, I took up many integrated projects with my IT curriculum.

- App Development- I have learnt and developed the following apps using Thunkable and MIT app inventor:
    1. To-Do List
    2. Translator
    3. Meta Minds App on assessments and surveys for mental health and well-being.
    4. App for controlling relays and LEDs using ESP32
- Microcontroller project:
    1. Controlling an LED using Blynk App
    2. Weather station using LEDs
    3. Automated Watering/Irrigation System (made with my friends)
    4. Controlling an LED tube light using relay and Blynk App

I have also conducted an online, interactive and fun filled seminar for the students of Bangladesh on Paint 3D.

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TECHNOPHILE

To-Do List

Meta Minds

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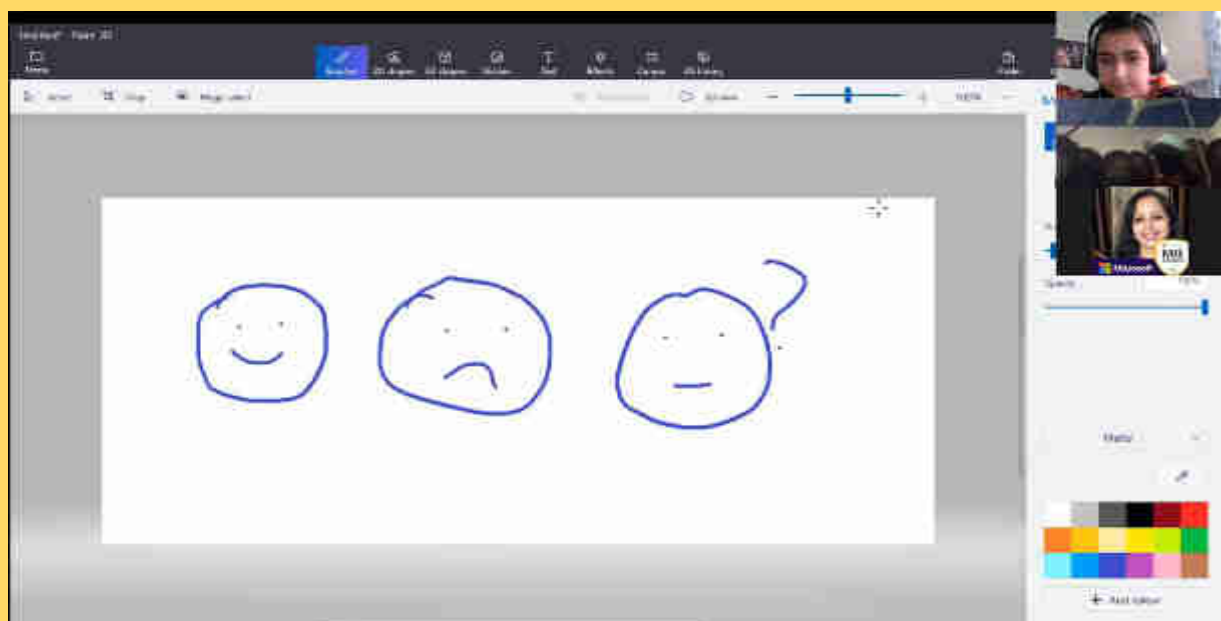
TECHNOPHILE

Automated Watering/ Irrigation System

Participants:

Angad Singh

Gauranga Dutta

Parv Gupta

Naman Garg

Idea:

When we saw water getting wasted in humongous quantities, we felt bad for the future generation. We thought if everything continued to be like this, it would end up with bad consequences, not only for us but also for our future generations. So, now it was our turn to play a role, if not a big one, in helping the planet. One day while our friends were having a small get-together, I saw my sister watering the plants and some water lying wasted in the tray under the pot. We thought about how we could change this cyle and save water. This is where our Automated Watering/Irrigation System's journey began.

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TECHNOPHILE
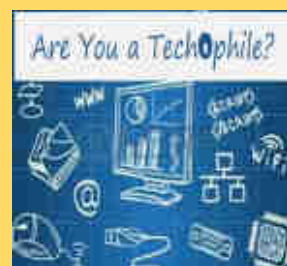
Objective:

Our project aims to help farmers and people irrigate fields or plants without worrying about the fields/plants. We have developed an effective and easy to set up irrigation system in the market right now(not for sale though). This system could be used on a small scale for plants in pots and on a large scale as well.

Main points why we are doing this project:

- Water will not be wasted, which is the biggest reason we are doing this project.
- As existing irrigation/watering systems are very expensive, we want to keep the price of this system as low as we can, so that everyone can afford it.
- Existing irrigation/watering systems do not provide automatic irrigation on moisture levels going down, while the proposed system will also provide this feature. The existing irrigation system often waters the plant more than required and sometimes even less than the requirement because of the time set for it to irrigate.
- Existing irrigation systems are said to be very easy to set up but when you buy those it isn't very easy (from my personal experience- Angad Singh)
- Proposed irrigation system requires no human intervention after the setup.
- Proposed irrigation system requires very less electricity compared to an LED bulb

Implementation:

Components:

1 x ESP32

1 x Breadboard

1 x Soil Moisture sensor

1 x Relay

1 x Solenoid Valve

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Few Jumper wires too

Main Concept:

The main concept for this is that the Soil Moisture Sensor will send the moisture level value to the ESP32 at a delay of 0.01 seconds (100 milliseconds). When the moisture level goes down than the set moisture level (around 75% which is the best soil moisture level for a plant to grow in), the ESP32 will be sending the signal to the relay to be turned on. When the relay turns ON then the circuit for the Solenoid Valve will be completed and the solenoid valve will turn on and send the water through the pipe to the plants. When the set moisture level is achieved, the ESP32 will send a signal to the relay again to be turned OFF and no the circuit for the Solenoid Valve circuit will break and the water will stop flowing.
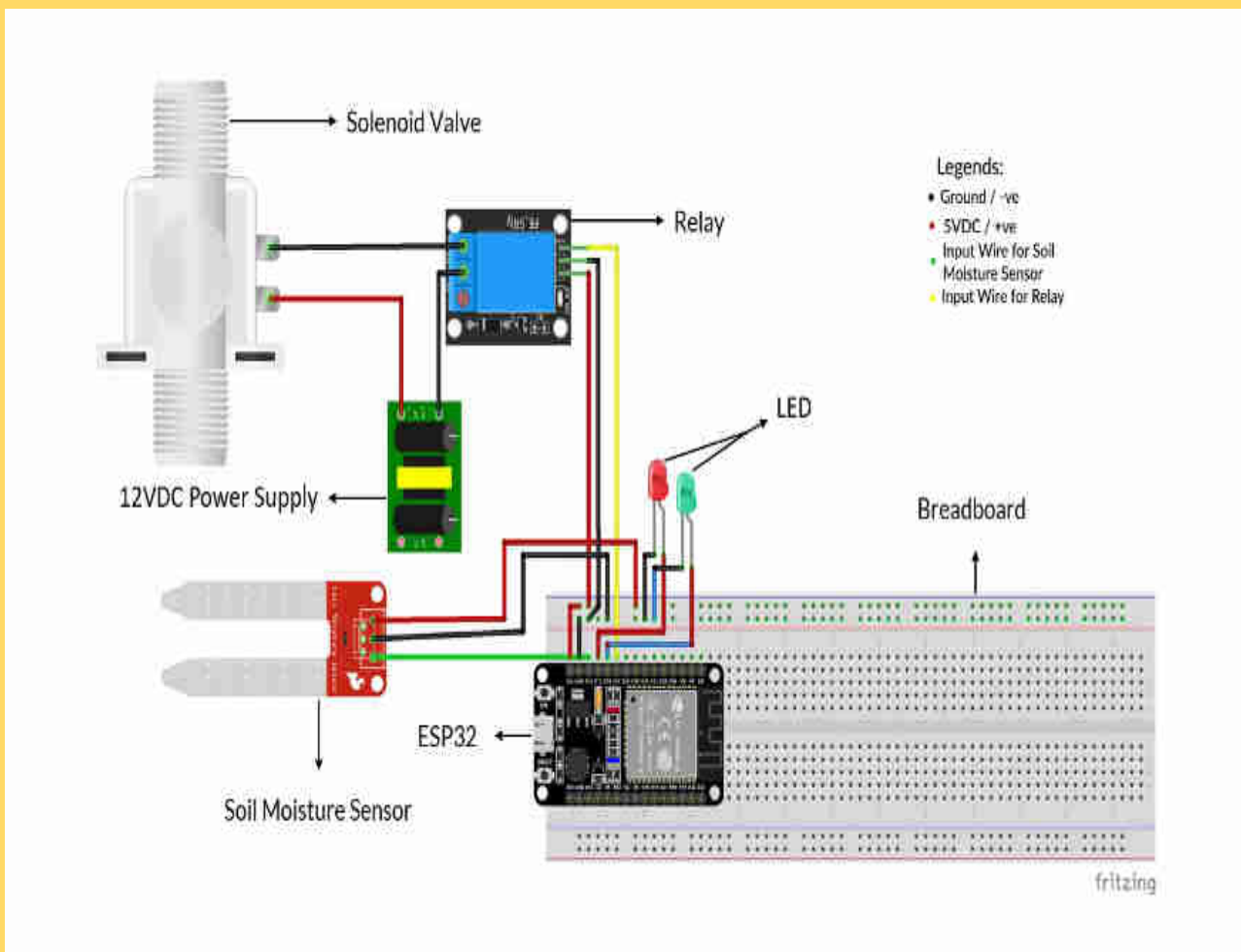
Project Demo Video: Click Here

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TECHNOPHILE

Learning Journey

Kavish Devaria- IX B

Projects

Here you can find the list of projects I've made.

1. **Rock-Paper-Scissors Bot.**

This is a simple bot made using python to play the legendary rock-paper-scissors game where a random choice is made by the computer. This is a cli (command line interface) program i.e. it will run in either a command prompt or a terminal.

Checkout the explanation of the code here : https://youtu.be/e9icJbu-mZw

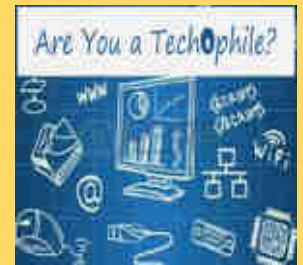2. **Cyber Bullying website (ECHO – Edifying CyberSpace Harassment Outreach)**

A website for spreading awareness of cyber bullying about teenagers. This was even the 2nd runner up in the Tech for Good Challenge - Microsoft (2021). Checkout my website hosted here : https://kavish.sendildevar.in/cyber-bullying

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TECHNOPHILE

3. Solidarity on COVID 19 WIX Website

A website made using WIX on solidarity on COVID 19.

Check out the website here : https://devarkavish.wixsite.com/website

4. Mobile controlled DIY car

In this mobile-controlled car, I have used a ESP8266 that has built-in wifi (for controlling via mobile app). It also uses a L298 driver for driving the BO-motors. This driver also has the ability to send PWM (Pulse Width Modulation) signals that control the speed of the motor. There is also a 7.4 volt 2200 milliampere hour (mAh) lithium-ion battery.

Hardware explanation here : https://youtu.be/BSiZrdm2E9U

Code explanation here : https://youtu.be/9hB_YdEz_1s

Apk for controlling here : https://kavish.sendildevar.in/static/CarControl.apk

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5. Covid Notifier

This project uses Cloudeya's API to obtain COVID-19 data and then it would notify the number of total cases, active cases, deaths and recoveries.

NOTE - The data source/API I used for obtaining the data is now deprecated, so the code won't work now.
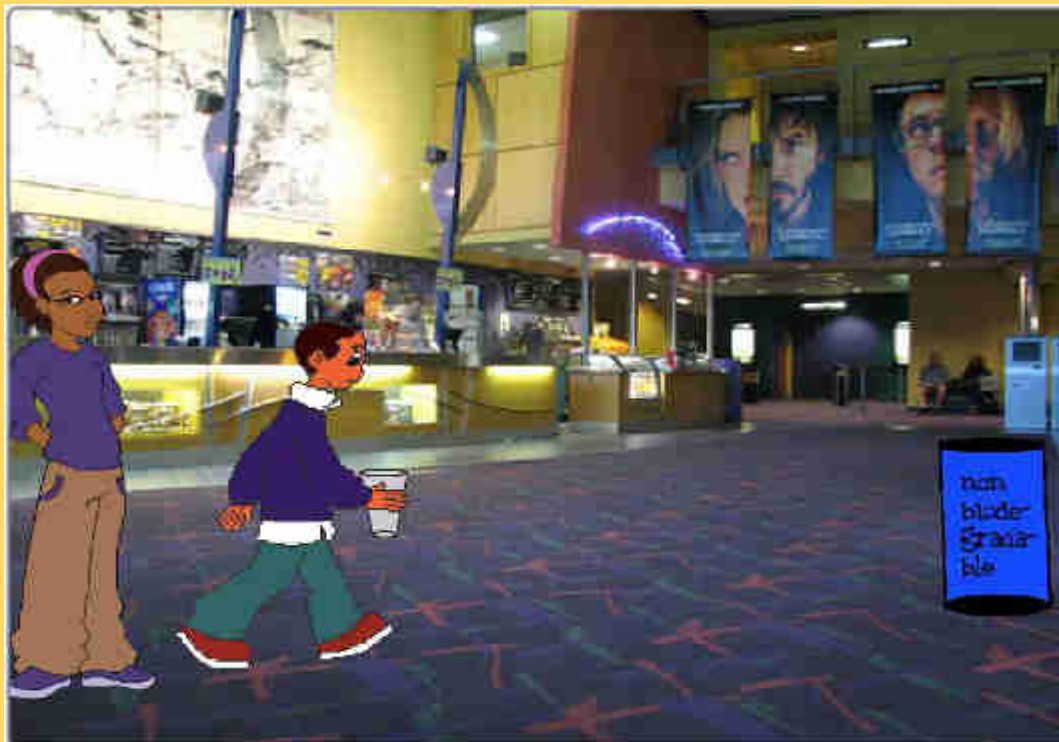
Check code here : https://github.com/ItsMeKoder/covid_notify

6. Circular Economy using Scratch

This was made using scratch aiming to explain circular economy using simple words and images.

Check project here : https://scratch.mit.edu/projects/266804424

Check video here : https://youtu.be/ToeCAHQr3_M

7. Empathetic AI and Empathetic Chatbots website

Check the website here : Empathetic Artificial Intelligence

8. Possible individual contributions to SDGs.

Here I have shared my thoughts on how I can What can I, as a student, do to accomplish the SDG's (Sustainable Development Global Goals)?

Wakelet page here : https://wakelet.com/wake/QIX5us1SztB1N6XNpSBVi

9. Trash Segregator

This project uses keras and tensorflow to classify the waste kept into biodegradable and non-biodegradable. This is on the server side.

On the client (the segregator) side there is a raspberry pi, a camera and a servo motor. Here the raspberry pi will detect an object and send the image to the server and the server will classify and return the type i.e. biodegradable and non-biodegradable. And according to the type of the waste it will rotate the servo motor.

The waste is to be kept on the white coloured plate and on the centre for clear classification and for segregation.

THANK YOU

Contact Details:

📞 : **8800173555**

🌐 : http://dpsgurugram84.com/

f : https://www.facebook.com/dpsgurgaon84/

📷 : **@dpsgurugram84**

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