

NALAIYA THIRAN

WEEK 2 REPORT

Phase 2 Description: Ideation Phase (Literature Survey, Empathize, Defining Problem Statement, Ideation)

2.1 Literature survey on the selected project & Information Gathering

Collected the relevant information on project use-case, referred the existing solutions, technical papers, research publications etc.

Paper 1 - Literature Survey on Smart Water Quality Monitoring System

Publisher: International Journal of Innovations in Engineering and Science (IJIES)

Reference - <https://www.ijies.net/finial-docs/finial-pdf/270318335.pdf>

Paper 2 - Real-Time Water Quality Monitoring System

Publisher: International Journal of Engineering Research & Technology (IJERT)

Reference - <https://www.ijert.org/real-time-water-quality-monitoring-system>

Paper 3 - Real Time Water Quality Monitoring System Using IoT And Machine Learning

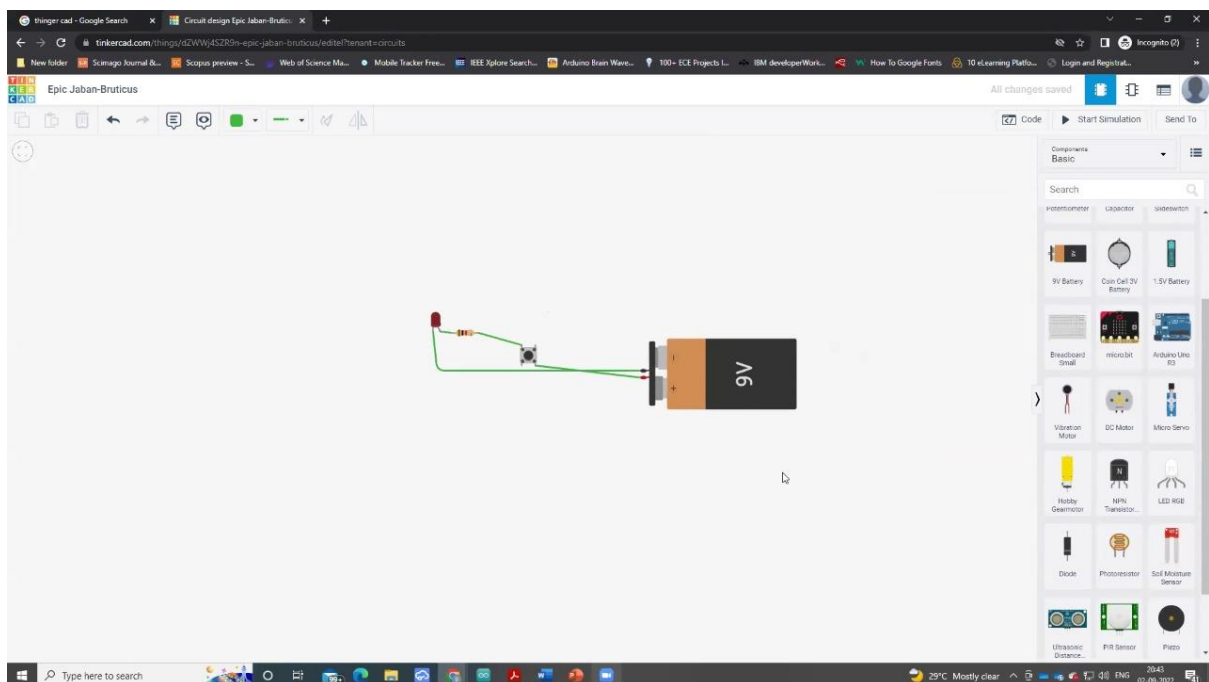
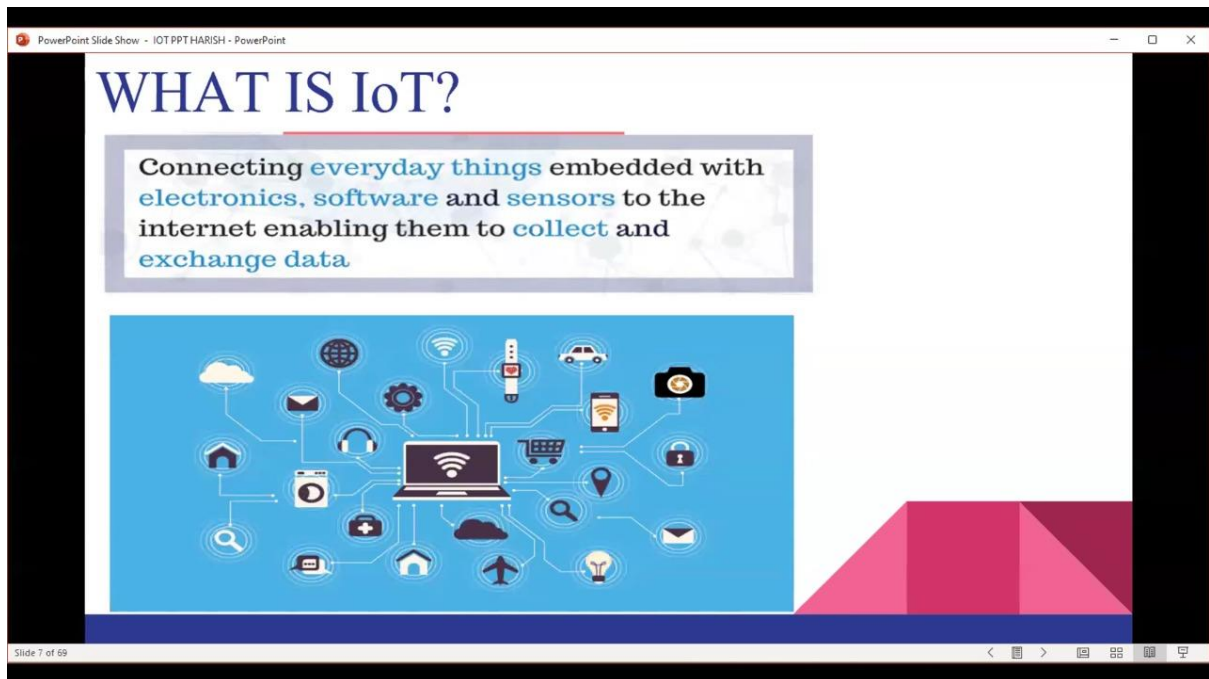
Publisher: International Journal of Advance Research and Innovative Ideas in Education (IJARIIE)

Reference -

https://ijariie.com/AdminUploadPdf/Real_time_water_quality_monitoring_system_using_machine_learning_and_IoT_ijariie9812.pdf

2.2 Attended the technology trainings as per the training calendar

IoT -B3-3M5E (Evening Session) - Day 1 (02.09.2022)



IoT- B3-3M5E (Morning Session)-Day-2 (07.09.2022)

PowerPoint Slide Show - IOT PPT HARISH - PowerPoint

Specification:-

Microcontroller	ATmega328
Operating Voltage	5V
Input Voltage (recommended)	7-12V
Input Voltage (limits)	6-20V
Digital I/O Pins	14 (of which 6 provide PWM output)
Analog Input Pins	6
DC Current per I/O Pin	40 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	32 KB of which 0.5 KB used by bootloader
SRAM	2 KB
EEPROM	1 KB
Clock Speed	16 MHz

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Software | Arduino

tinycad.com/things/dGH8ZBaDDty-analoginput/ed8tel

ANALOG_INPUT

Simulator time: 00:00:24

1 (Arduino Uno R3)

```
1 // C++ code
2 //
3 void setup()
4 {
5   Serial.begin(9600);
6 }
7
8 void loop()
9 {
10  int potValue = analogRead(A0);
11  Serial.println(potValue);
12  delay(500);
13 }
```

Serial Monitor

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