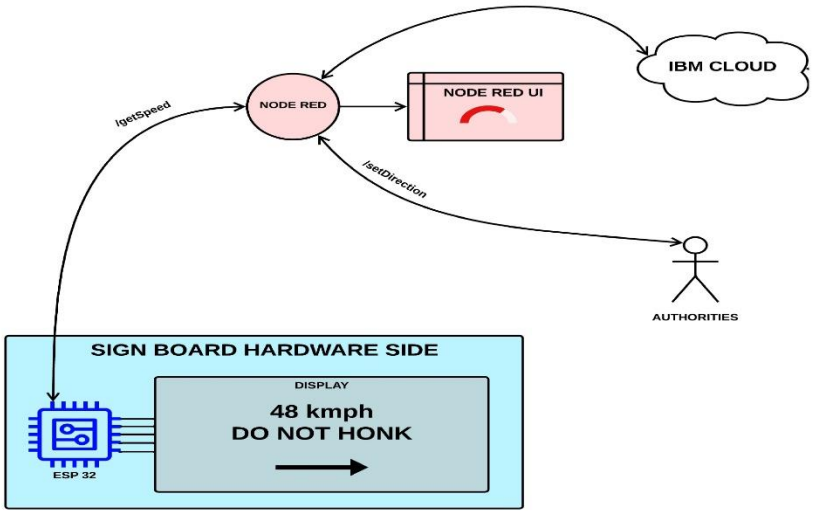
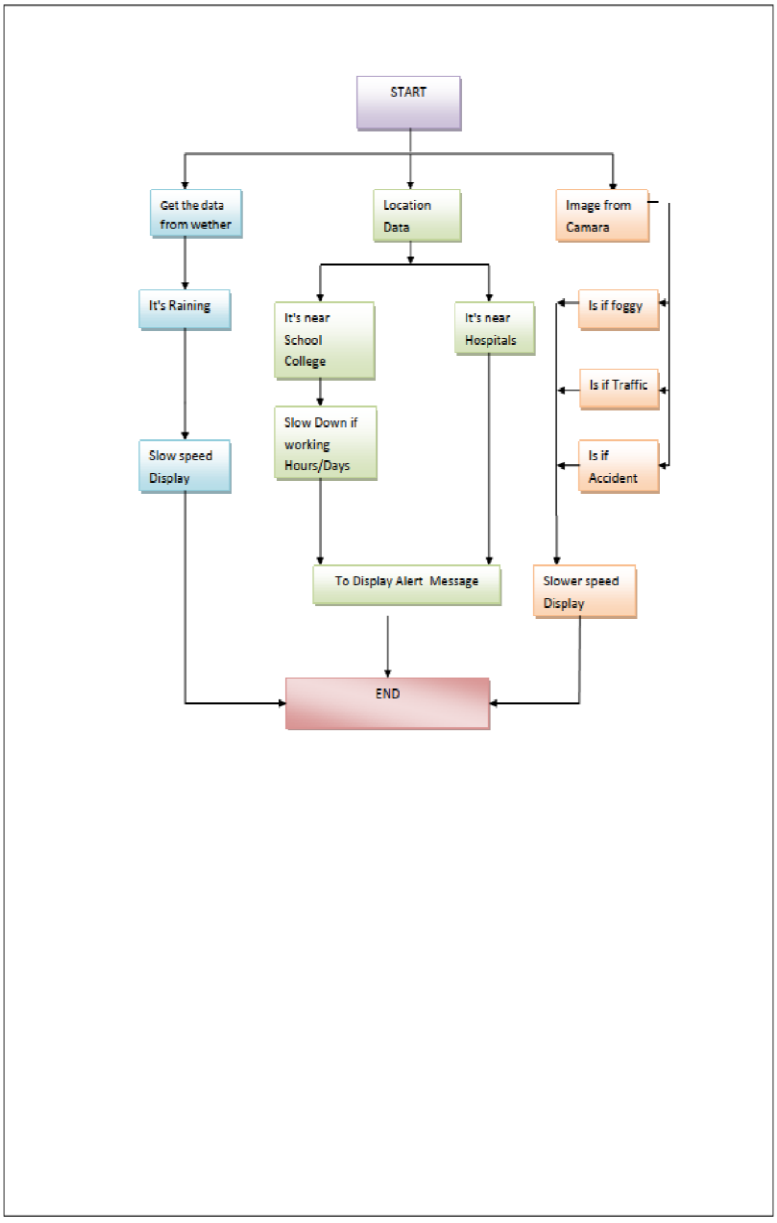
Sprint 3

Date	13 November 2022
Team ID	PNT2022TMID46743
Project Name	Signs with smart connectivity for Better road safety
Maximum Marks	4 Marks

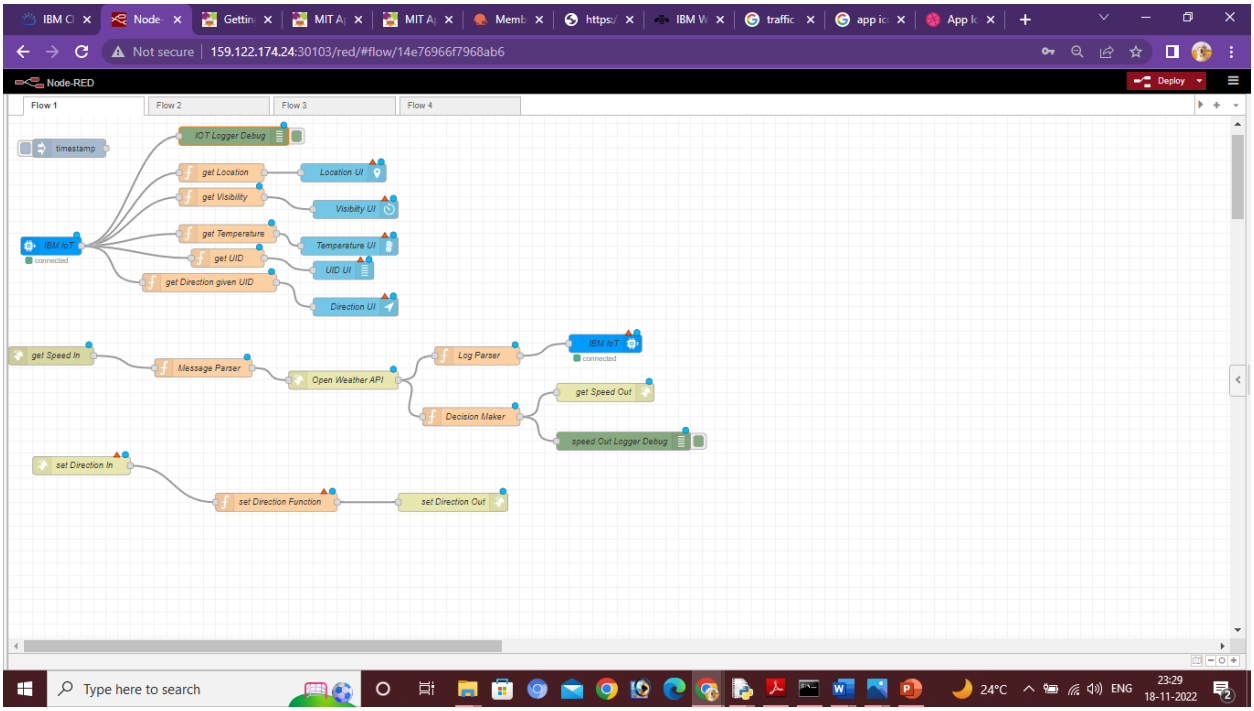
Process Flow:



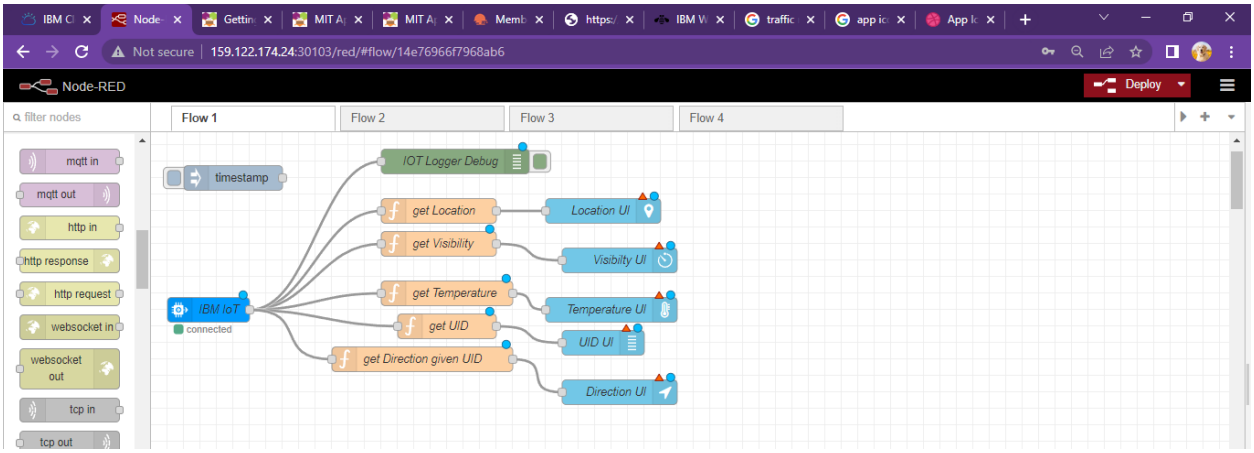
Code Flow:


START
Get the data from wether
Location Data
Image from Camara
It's Raining
It's near School College
It's near Hospitals
Is if foggy
Is if Traffic
Is if Accident
Slow speed Display
Slow Down if working Hours/Days
To Display Alert Message
Slower speed Display
END

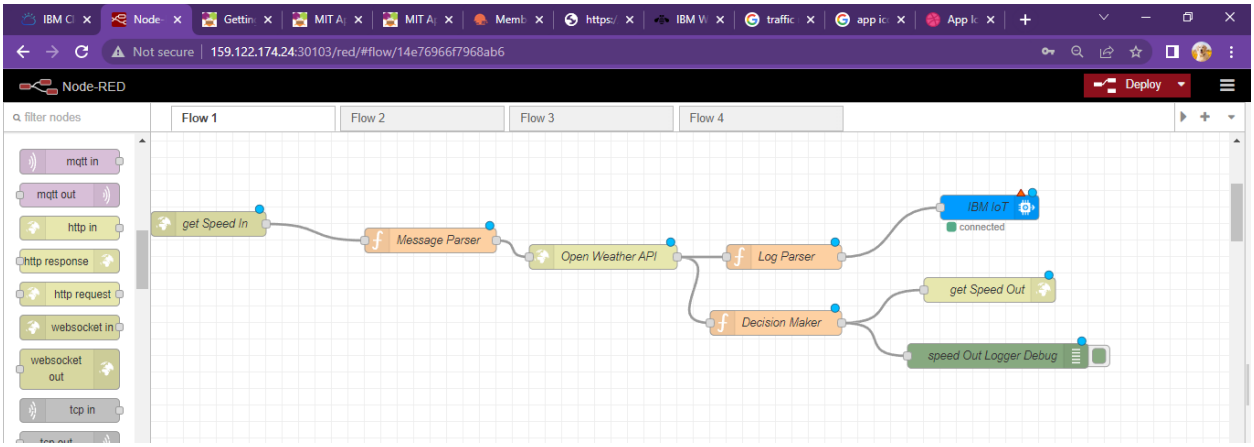
Node RED:



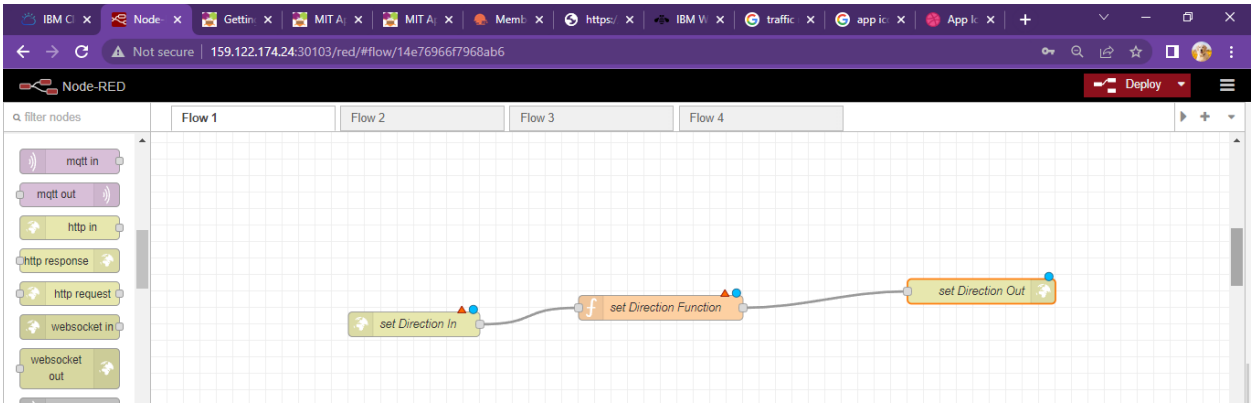
1. Node Flow:



2. /getSpeed API Flow:

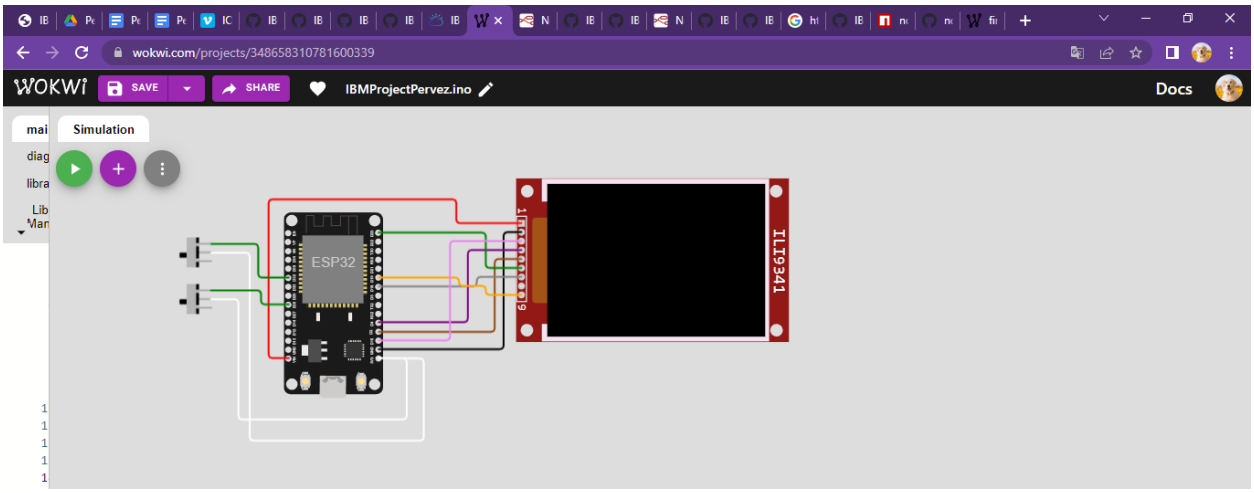


3. /setDirection API Flow:



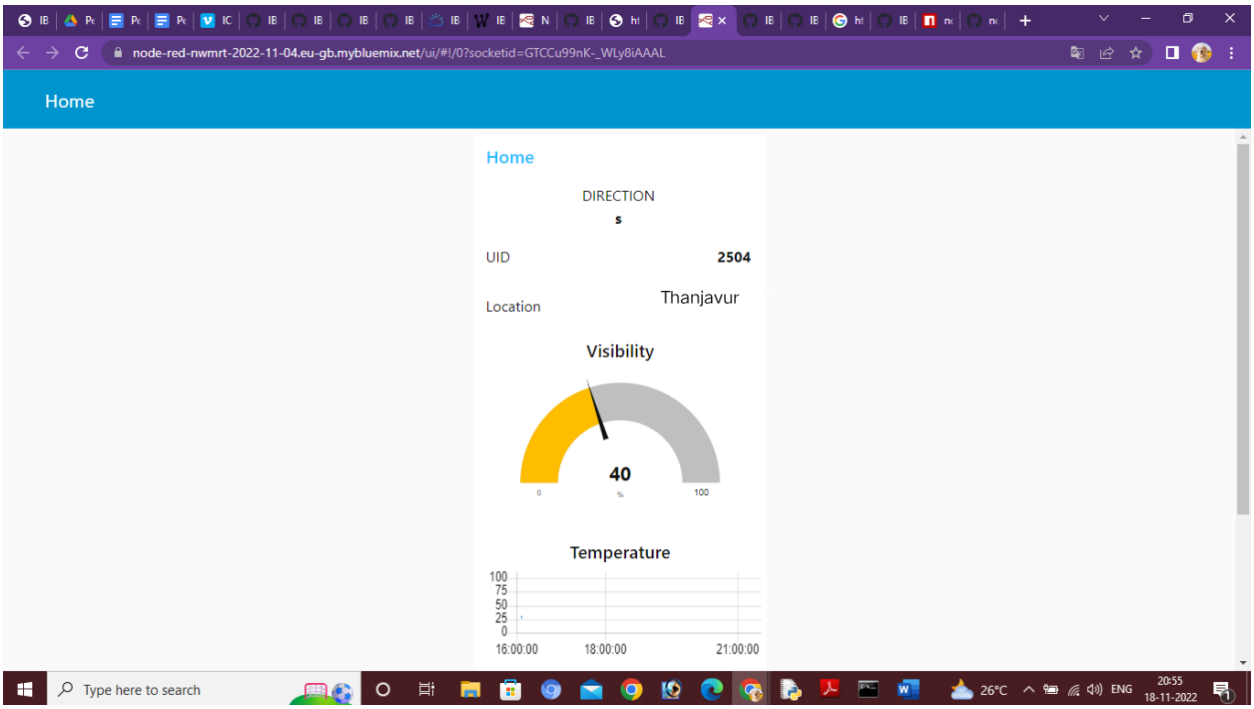
Wokwi Circuit 1:

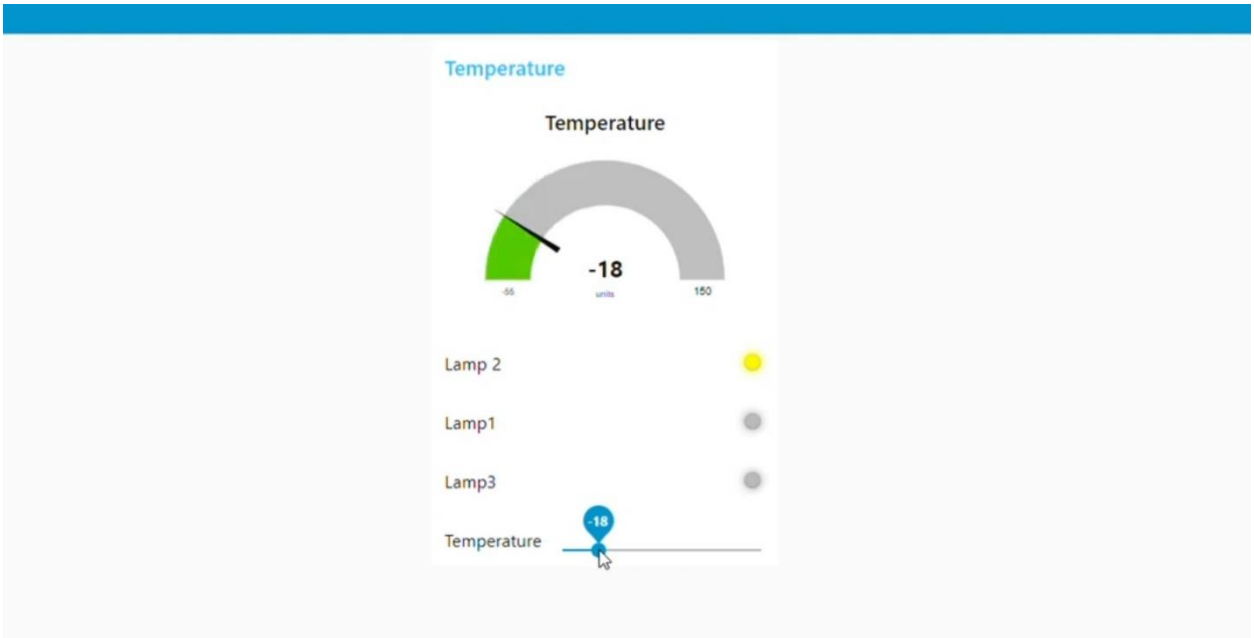
Circuit Diagram:



Output:

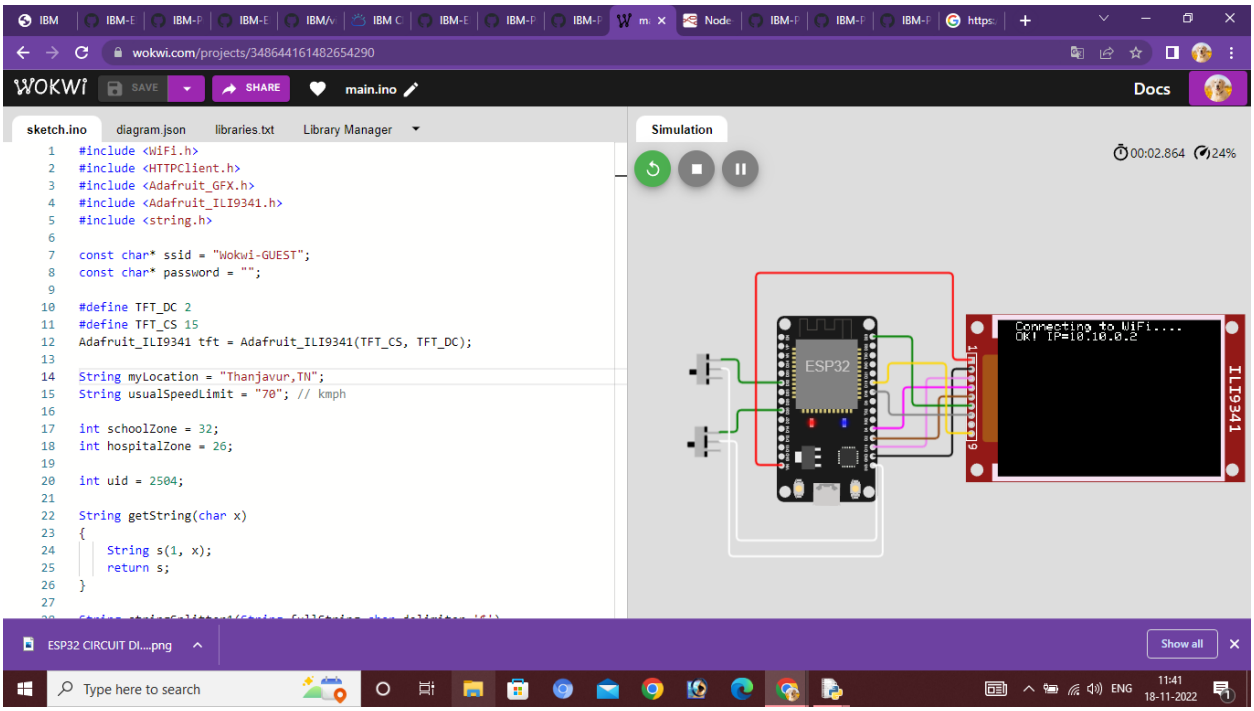
Node Red dashboard:



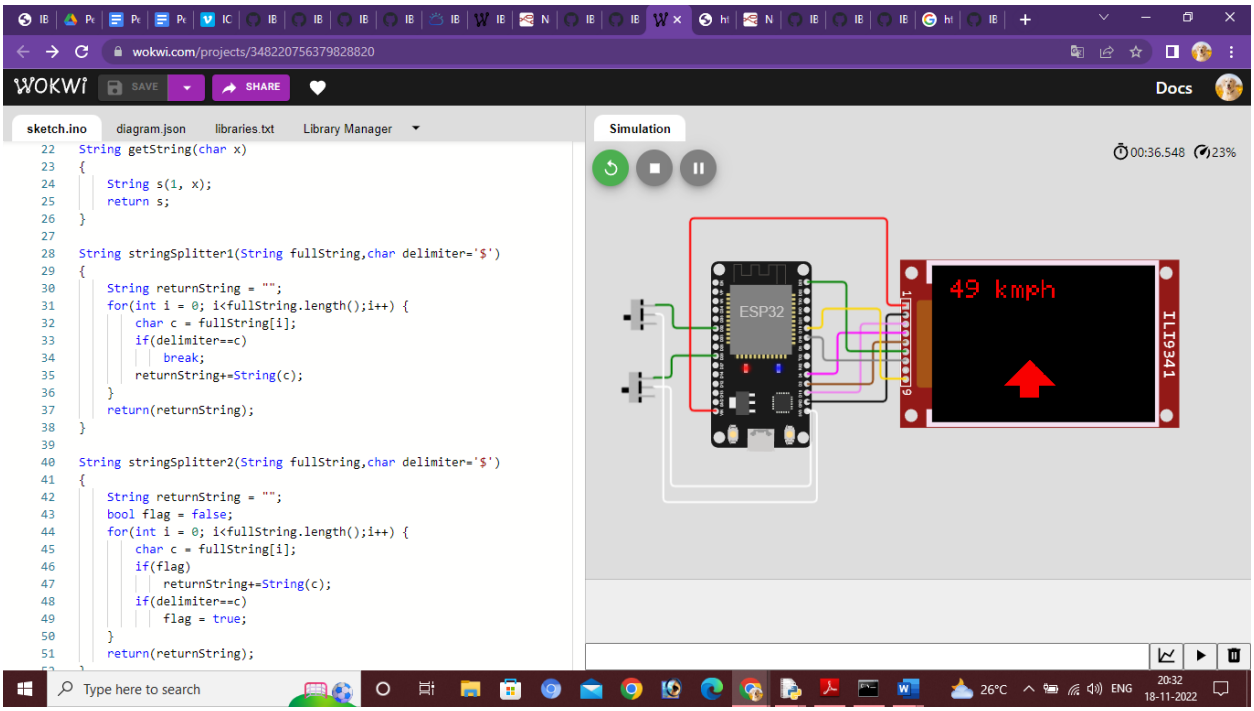


Wokwi output:

Output 1:

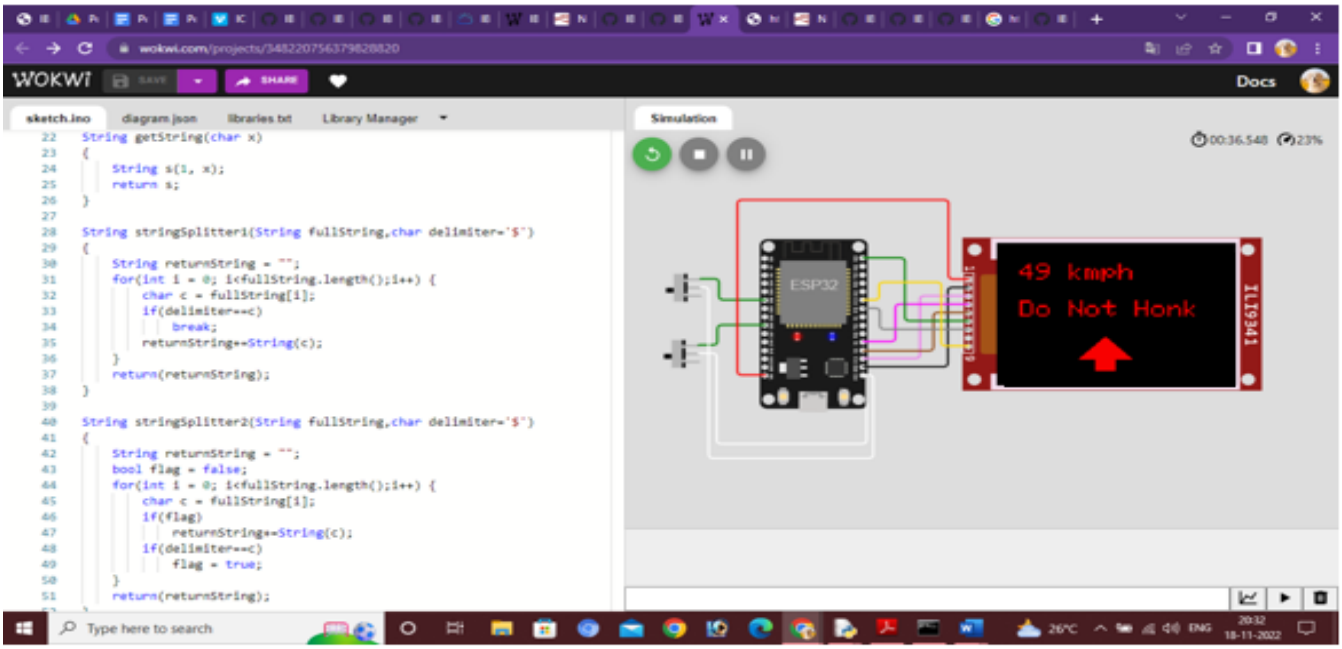


Output 2:

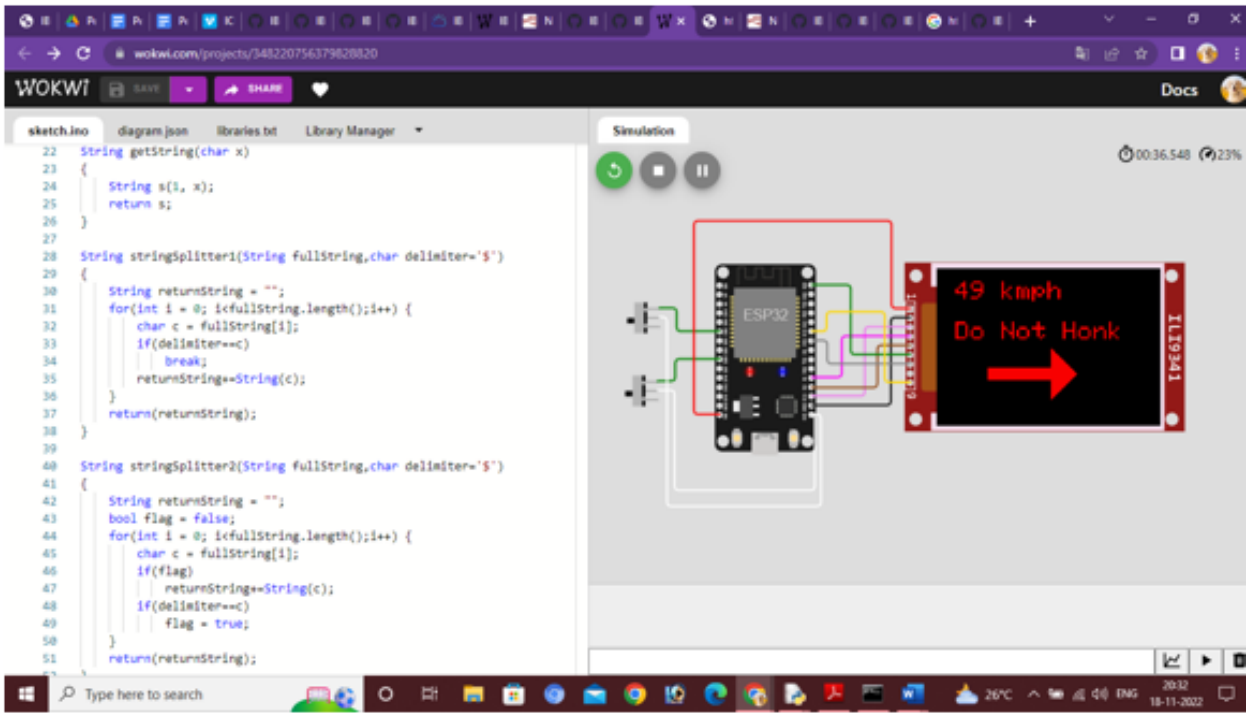



```
String getString(char x)
{
    String s(1, x);
    return s;
}

String stringSplitter1(String fullString,char delimiter='$')
{
    String returnString = "";
    for(int i = 0; i<fullString.length();i++) {
        char c = fullString[i];
        if(delimiter==c)
            break;
        returnString+=String(c);
    }
    return(returnString);
}

String stringSplitter2(String fullString,char delimiter='$')
{
    String returnString = "";
    bool flag = false;
    for(int i = 0; i<fullString.length();i++) {
        char c = fullString[i];
        if(flag)
            returnString+=String(c);
        if(delimiter==c)
            flag = true;
    }
    return(returnString);
```

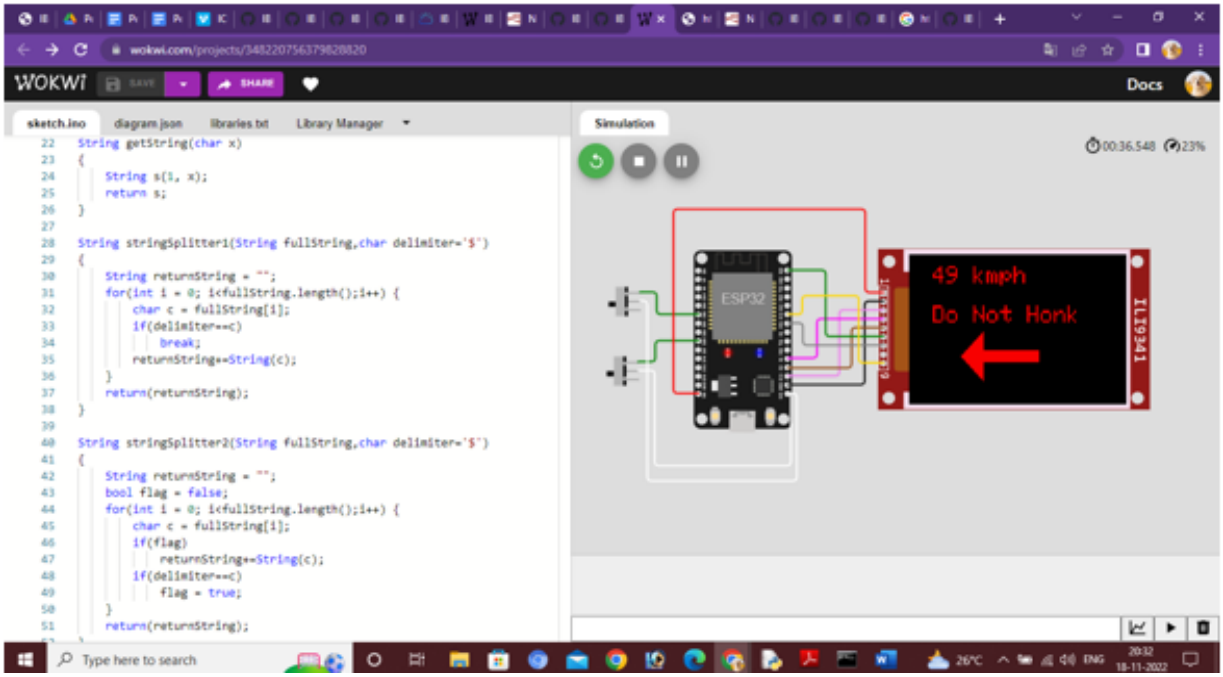
Output 3:



Output 4:

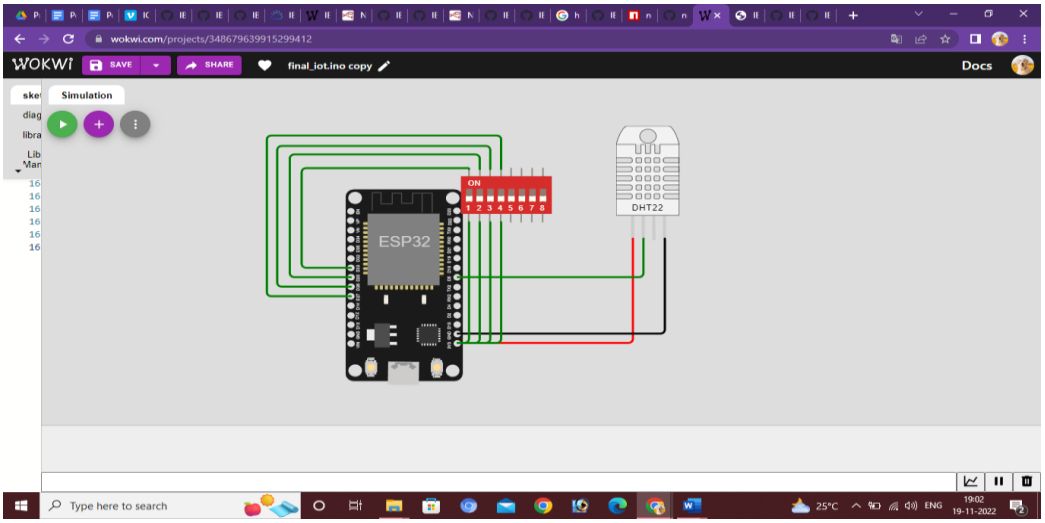


Output 5:

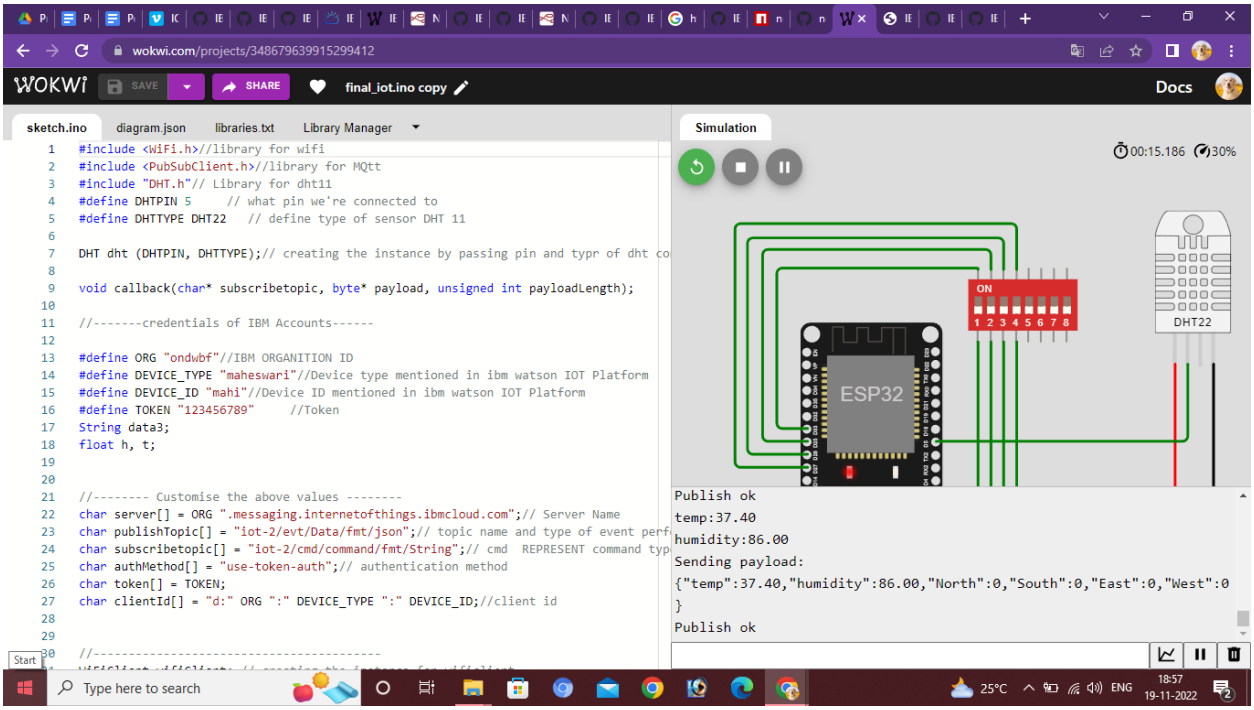


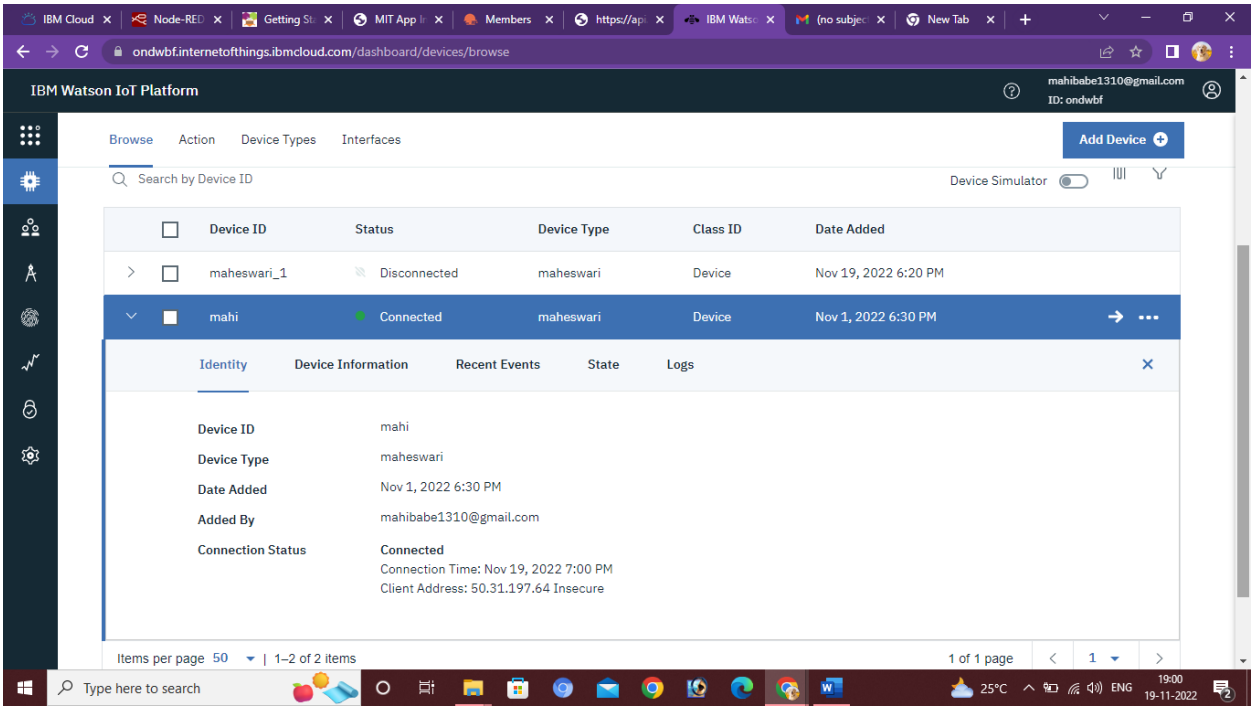
Wokwi Circuit 2:

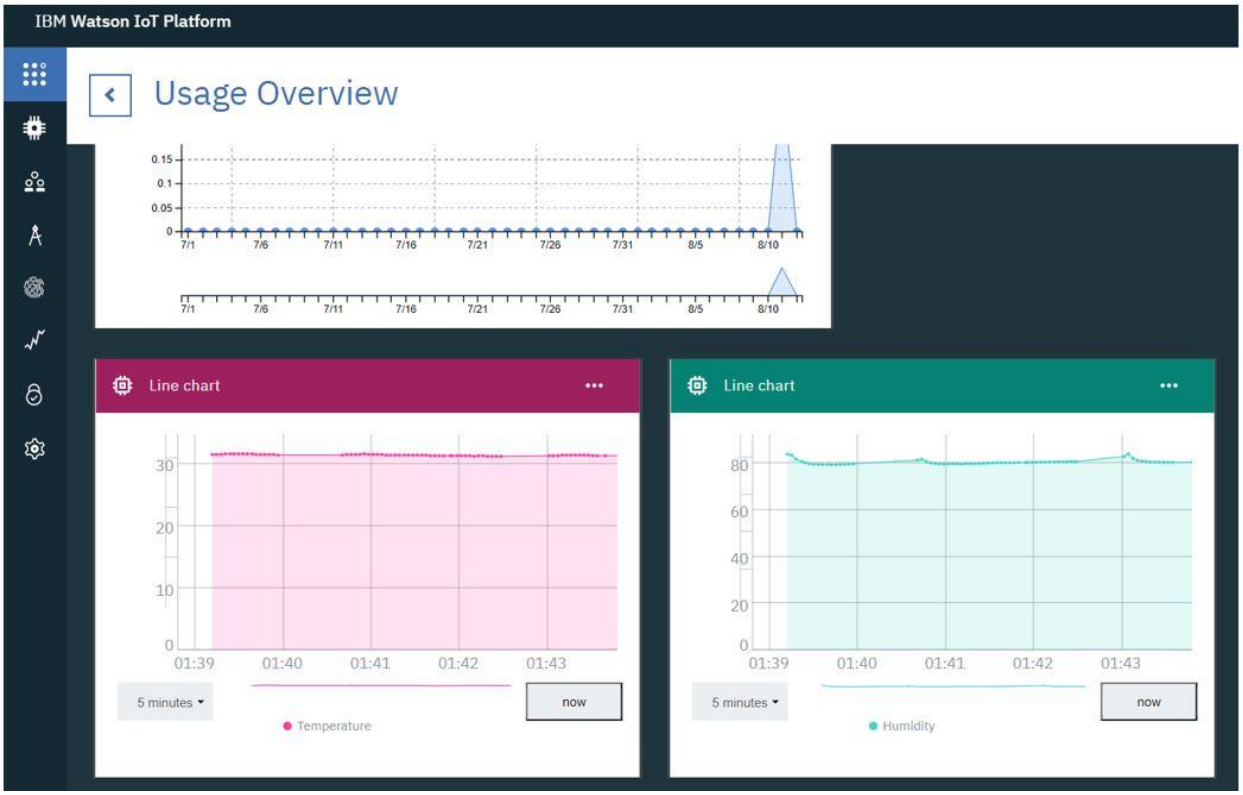
Circuit Diagram:

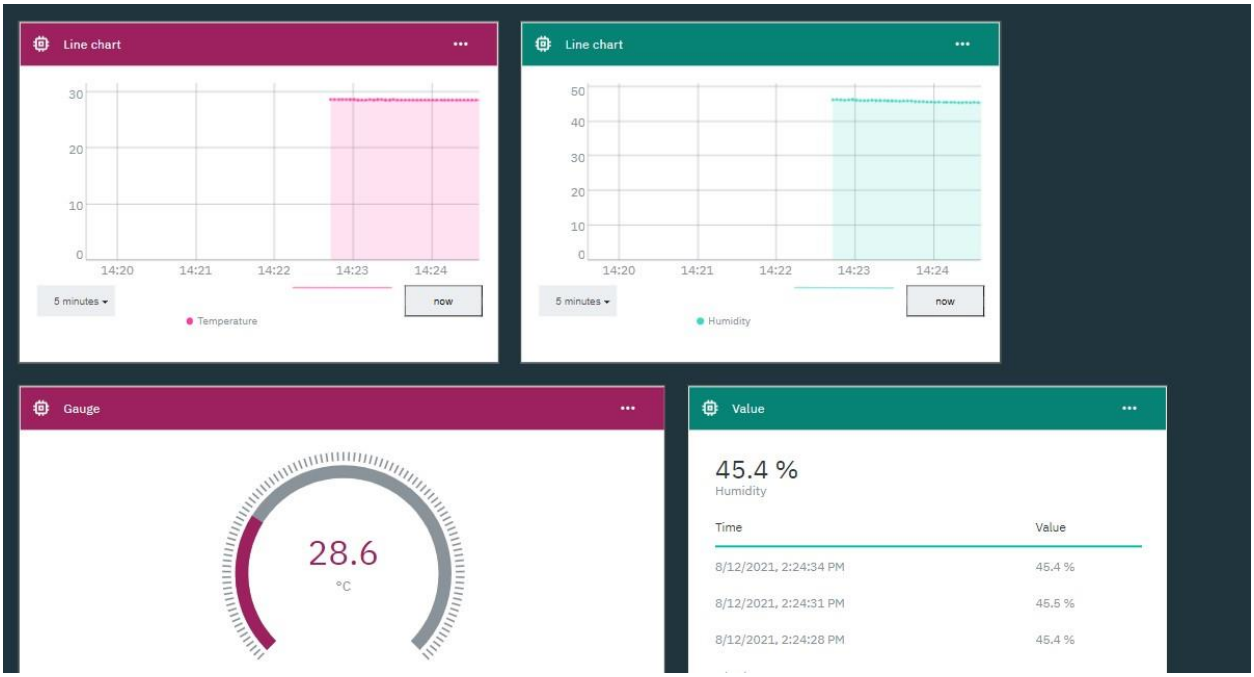


Output :




IBM Watson IoT Platform
mahibabe1310@gmail.com
ID: ondwbf
Browse
Action
Device Types
Interfaces
Add Device
Search by Device ID
Device Simulator
Device ID
Status
Device Type
Class ID
Date Added
maheswari_1
Disconnected
maheswari
Device
Nov 19, 2022 6:20 PM
mahi
Connected
maheswari
Device
Nov 1, 2022 6:30 PM
Identity
Device Information
Recent Events
State
Logs
Device ID
mahi
Device Type
maheswari
Date Added
Nov 1, 2022 6:30 PM
Added By
mahibabe1310@gmail.com
Connection Status
Connected
Connection Time: Nov 19, 2022 7:00 PM
Client Address: 50.31.197.64 Insecure
Items per page 50
1–2 of 2 items
1 of 1 page
Type here to search
25°C
ENG
19:00
19-11-2022


IBM Watson IoT Platform
Usage Overview
0.15
0.1
0.05
0
7/1
7/6
7/11
7/16
7/21
7/26
7/31
8/5
8/10
Line chart
30
20
10
0
01:39
01:40
01:41
01:42
01:43
5 minutes
now
Temperature
Line chart
80
60
40
20
0
01:39
01:40
01:41
01:42
01:43
5 minutes
now
Humidity


Line chart
30
20
10
0
14:20
14:21
14:22
14:23
14:24
5 minutes
now
Temperature
Line chart
50
40
30
20
10
0
14:20
14:21
14:22
14:23
14:24
5 minutes
now
Humidity
Gauge
28.6
°C
Value
45.4 %
Humidity
Time
Value
8/12/2021, 2:24:34 PM
45.4 %
8/12/2021, 2:24:31 PM
45.5 %
8/12/2021, 2:24:28 PM
45.4 %