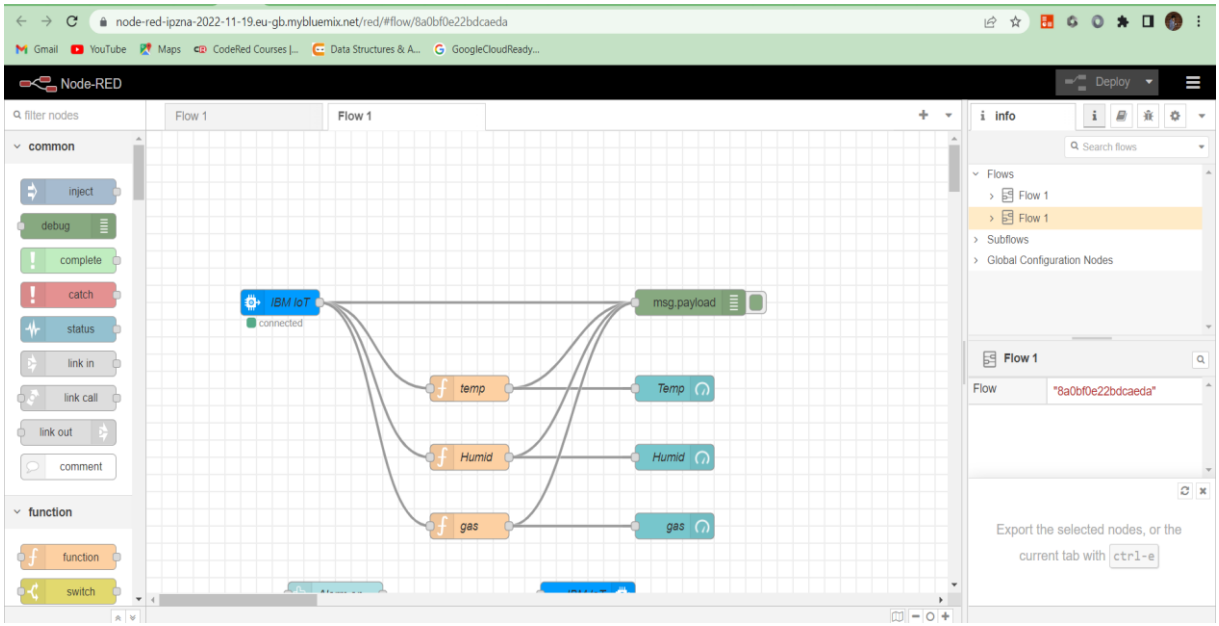
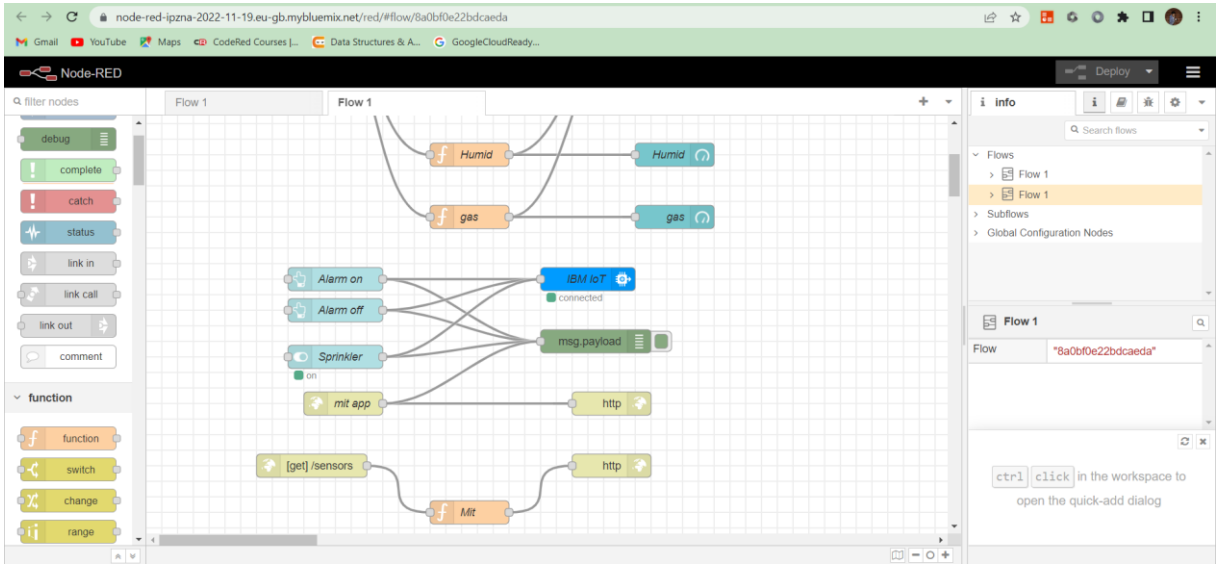
Project Development Phase
Delivery of Sprint 4

Date	15 November 2022
Team ID	PNT2022TMID21494
Project Name	Project –Gas leakage monitoring and alerting system for industries
Marks	20 marks

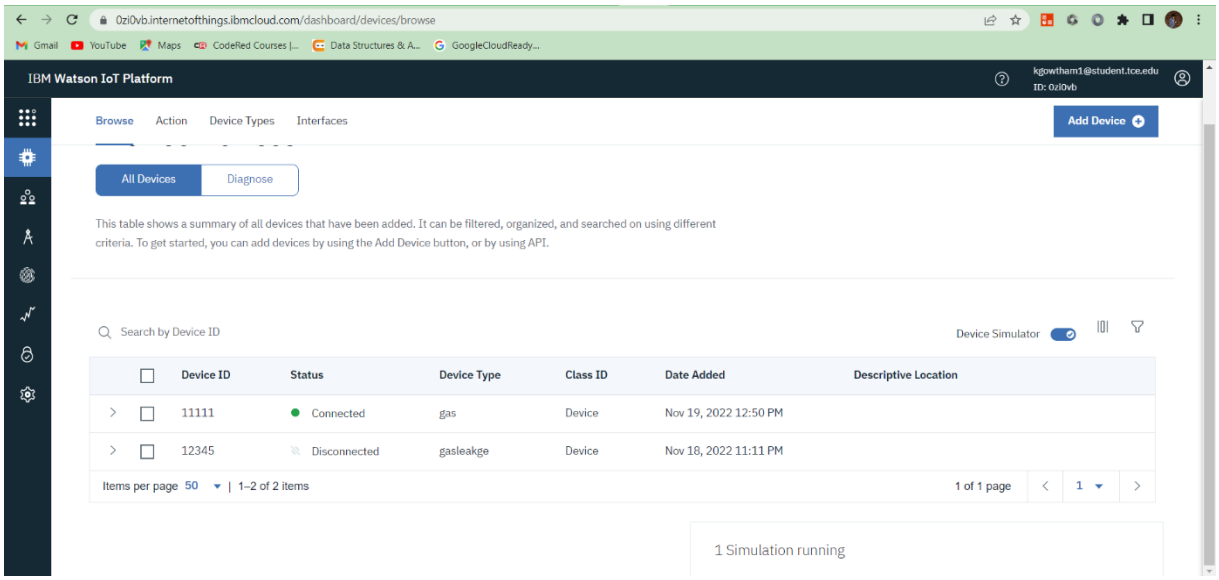
Open Node Red from IBM Cloud :

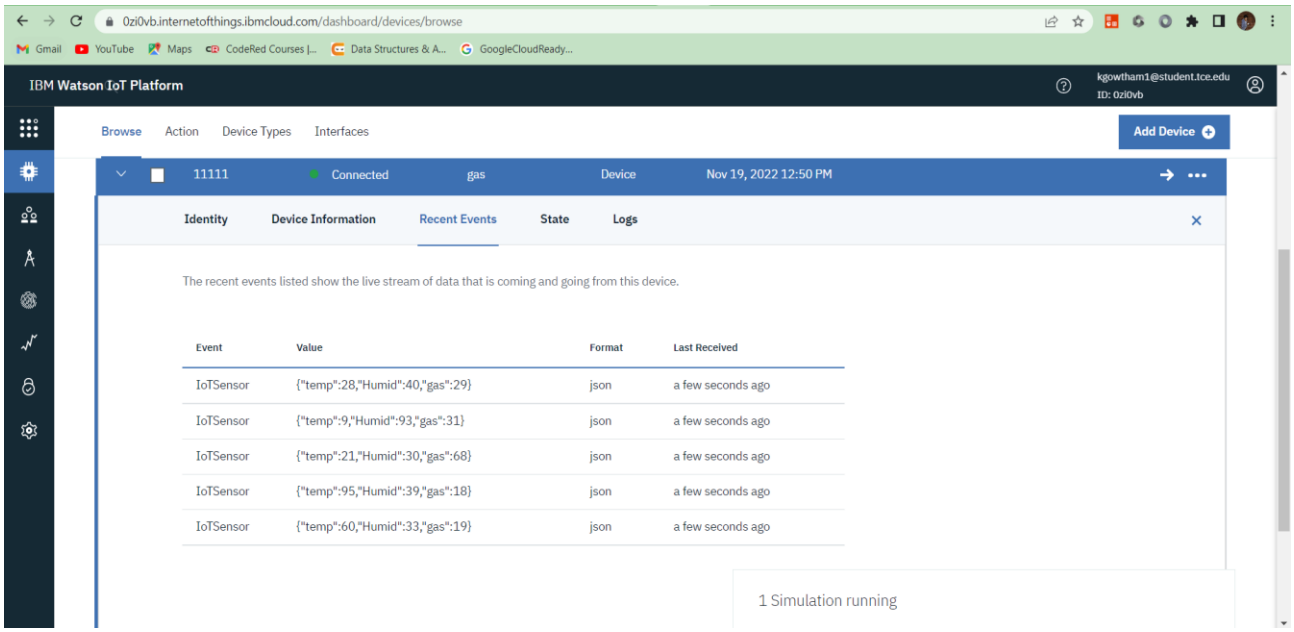
- GOT CONNECTED
- VALUES ARE FROM IBM WATSON

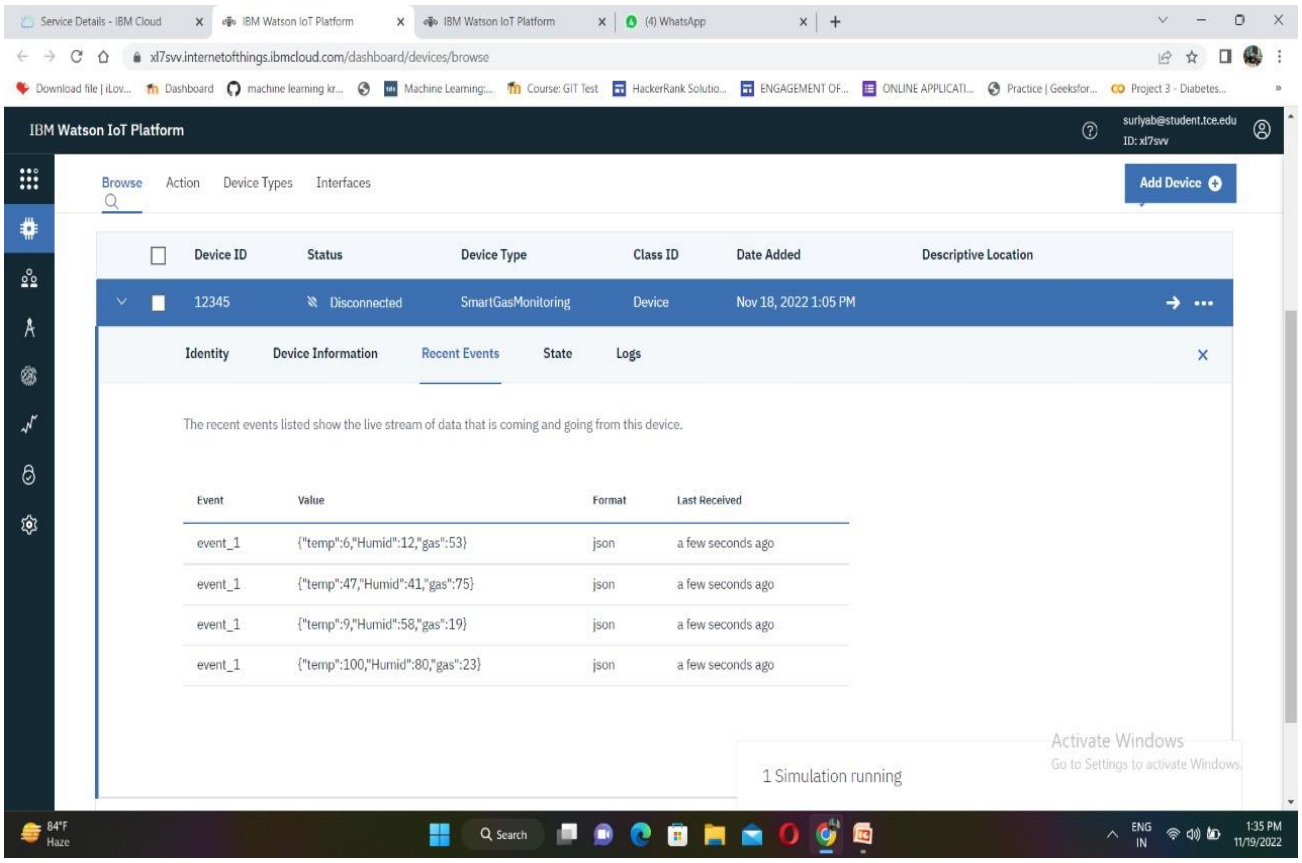


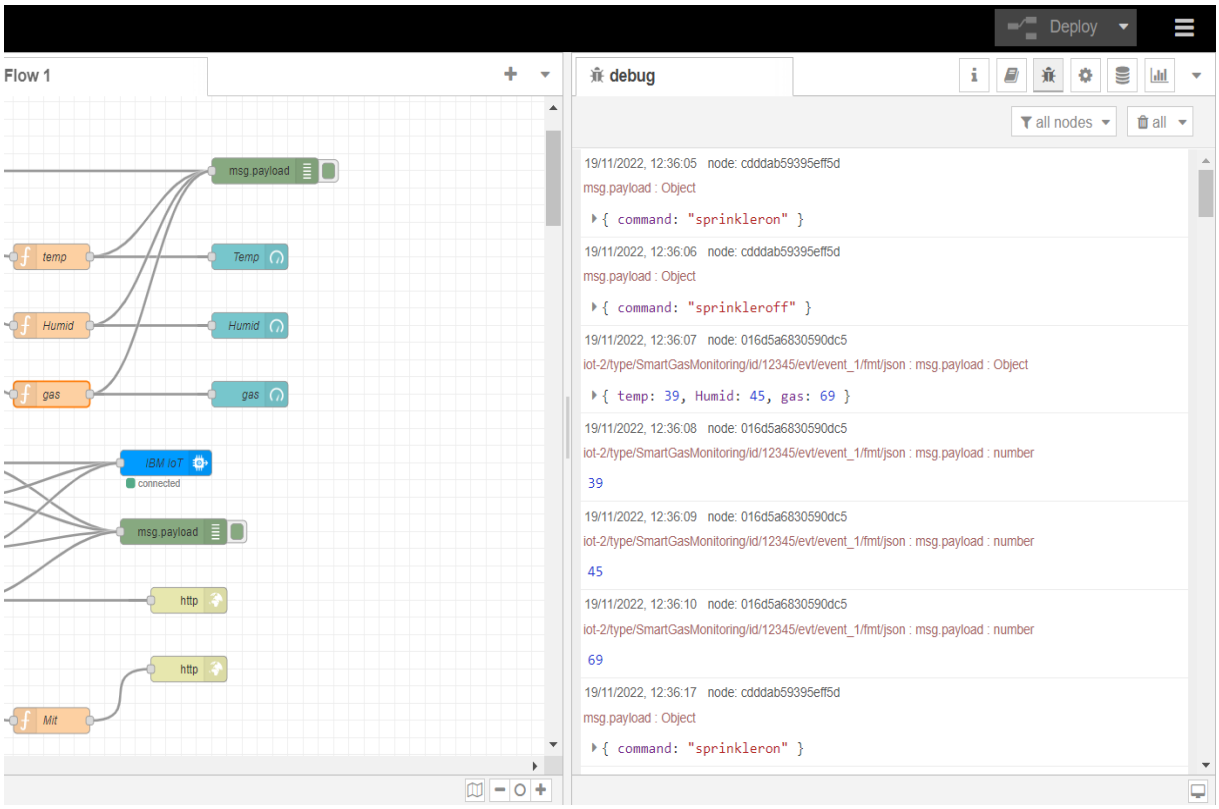


```
D:\sem7\New folder>python data.py
2022-11-19 12:51:50,886   ibmiotf.device.Client      INFO    Connected successfully: d:0zi0vb:gas:11111
Published Temperature = 36 C Humidity = 50 % Gas_Level =40 % to IBM Watson
Published Temperature = 22 C Humidity = 54 % Gas_Level =48 % to IBM Watson
Published Temperature = 0 C Humidity = 92 % Gas_Level =25 % to IBM Watson
Published Temperature = 38 C Humidity = 99 % Gas_Level =17 % to IBM Watson
Published Temperature = 64 C Humidity = 15 % Gas_Level =63 % to IBM Watson
Published Temperature = 76 C Humidity = 61 % Gas_Level =92 % to IBM Watson
Published Temperature = 14 C Humidity = 18 % Gas_Level =3 % to IBM Watson
Published Temperature = 44 C Humidity = 78 % Gas_Level =28 % to IBM Watson
Published Temperature = 31 C Humidity = 60 % Gas_Level =10 % to IBM Watson
Published Temperature = 87 C Humidity = 97 % Gas_Level =98 % to IBM Watson
Published Temperature = 69 C Humidity = 98 % Gas_Level =49 % to IBM Watson
Published Temperature = 67 C Humidity = 88 % Gas_Level =11 % to IBM Watson
Published Temperature = 60 C Humidity = 79 % Gas_Level =69 % to IBM Watson
Published Temperature = 75 C Humidity = 57 % Gas_Level =99 % to IBM Watson
Published Temperature = 68 C Humidity = 53 % Gas_Level =79 % to IBM Watson
Published Temperature = 11 C Humidity = 7 % Gas_Level =74 % to IBM Watson
Published Temperature = 40 C Humidity = 67 % Gas_Level =53 % to IBM Watson
Published Temperature = 86 C Humidity = 73 % Gas_Level =100 % to IBM Watson
Published Temperature = 61 C Humidity = 55 % Gas_Level =75 % to IBM Watson
Published Temperature = 63 C Humidity = 43 % Gas_Level =54 % to IBM Watson
Published Temperature = 51 C Humidity = 5 % Gas_Level =88 % to IBM Watson
Published Temperature = 10 C Humidity = 83 % Gas_Level =59 % to IBM Watson
Published Temperature = 85 C Humidity = 64 % Gas_Level =50 % to IBM Watson
Published Temperature = 58 C Humidity = 29 % Gas_Level =21 % to IBM Watson
Published Temperature = 70 C Humidity = 38 % Gas_Level =43 % to IBM Watson
Published Temperature = 74 C Humidity = 1 % Gas_Level =89 % to IBM Watson
```

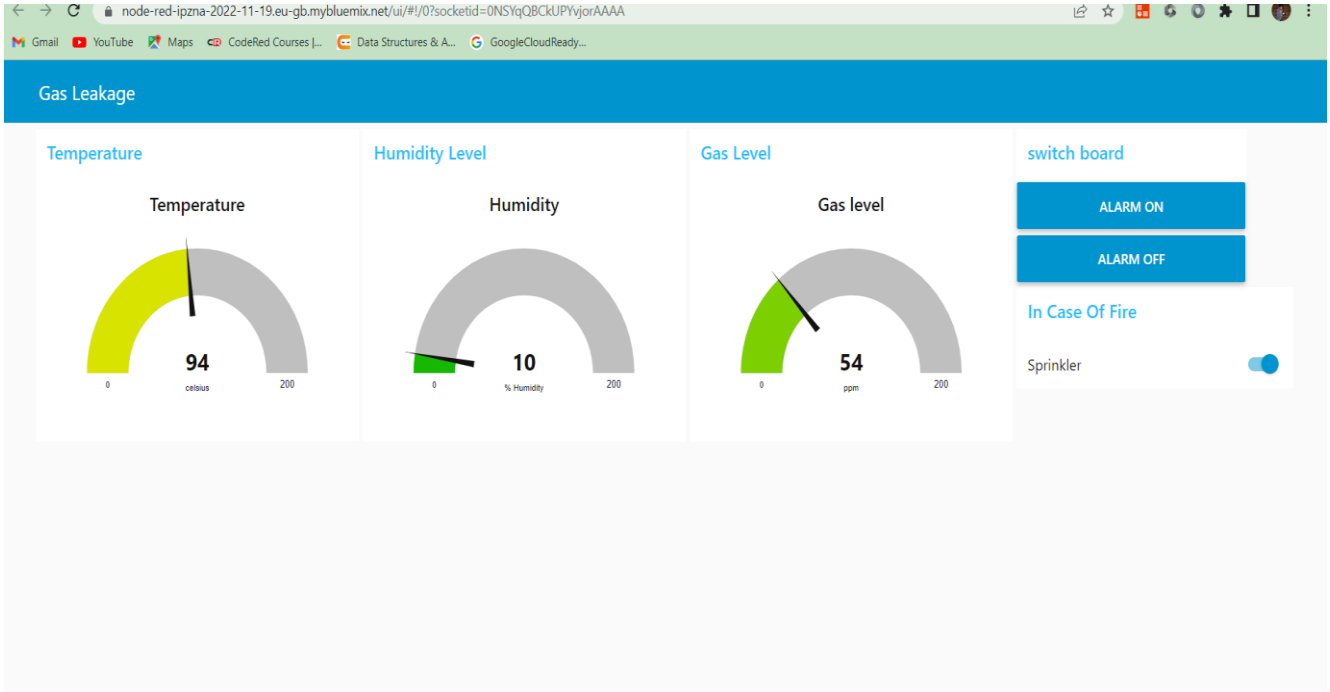


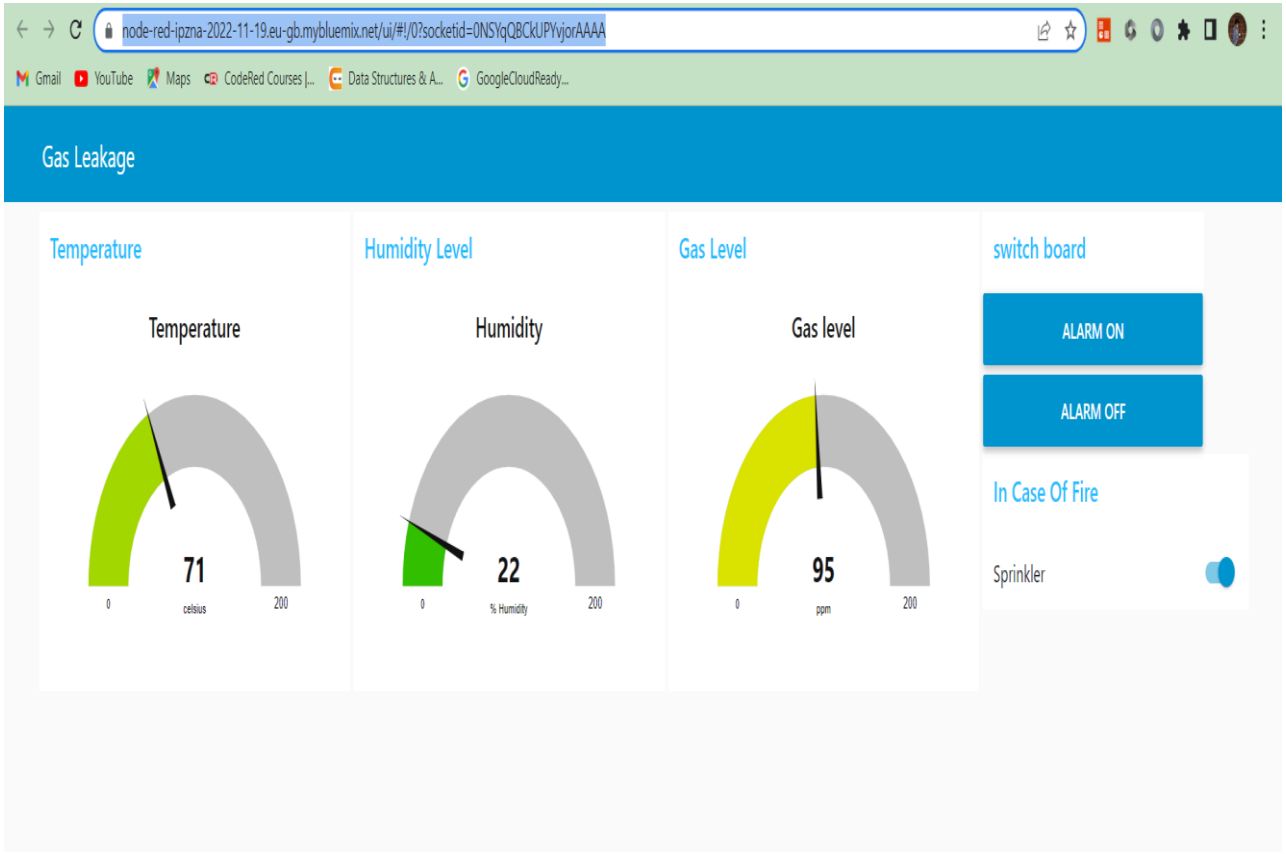

0zi0vb.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
kgowtham1@student.tce.edu
ID: 0zi0vb
Browse
Action
Device Types
Interfaces
Add Device
11111
Connected
gas
Device
Nov 19, 2022 12:50 PM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
IoTSensor
{"temp":28,"Humid":40,"gas":29}
json
a few seconds ago
IoTSensor
{"temp":9,"Humid":93,"gas":31}
json
a few seconds ago
IoTSensor
{"temp":21,"Humid":30,"gas":68}
json
a few seconds ago
IoTSensor
{"temp":95,"Humid":39,"gas":18}
json
a few seconds ago
IoTSensor
{"temp":60,"Humid":33,"gas":19}
json
a few seconds ago
1 Simulation running


xl7svv.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
surlyab@student.tce.edu
ID: xl7svv
Browse
Action
Device Types
Interfaces
Add Device
Device ID
Status
Device Type
Class ID
Date Added
Descriptive Location
12345
Disconnected
SmartGasMonitoring
Device
Nov 18, 2022 1:05 PM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
event_1
{"temp":6,"Humid":12,"gas":53}
json
a few seconds ago
event_1
{"temp":47,"Humid":41,"gas":75}
json
a few seconds ago
event_1
{"temp":9,"Humid":58,"gas":19}
json
a few seconds ago
event_1
{"temp":100,"Humid":80,"gas":23}
json
a few seconds ago
1 Simulation running
Activate Windows
Go to Settings to activate Windows.
84°F
Haze
Search
ENG
IN
1:35 PM
11/19/2022



WEB DESIGN (UI):

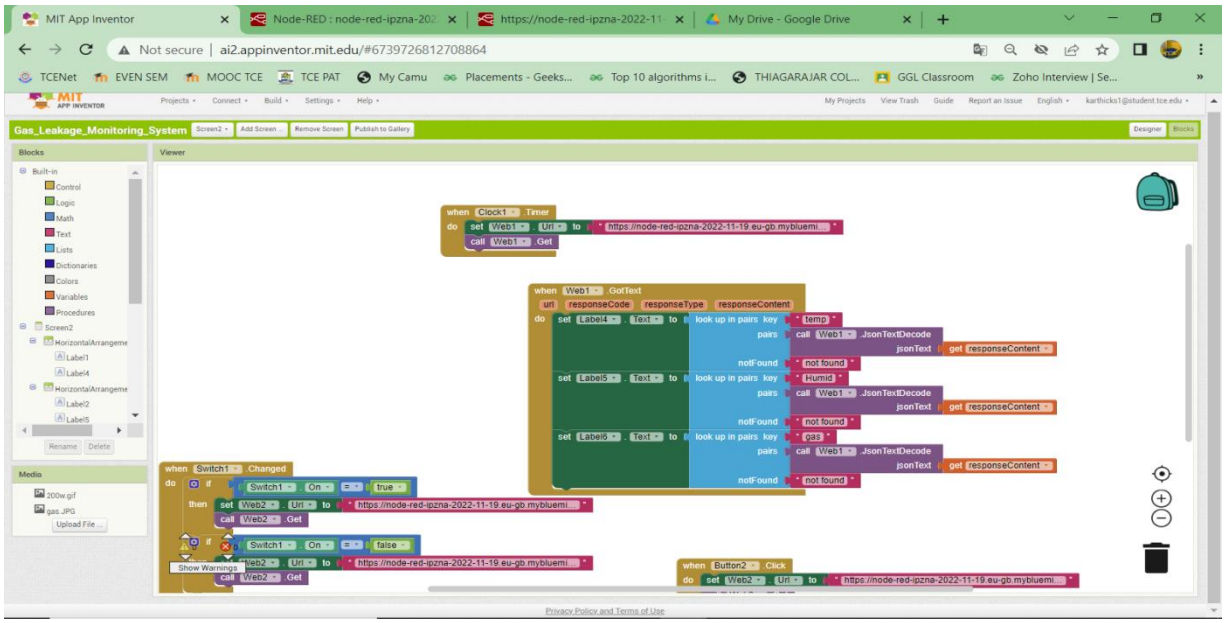


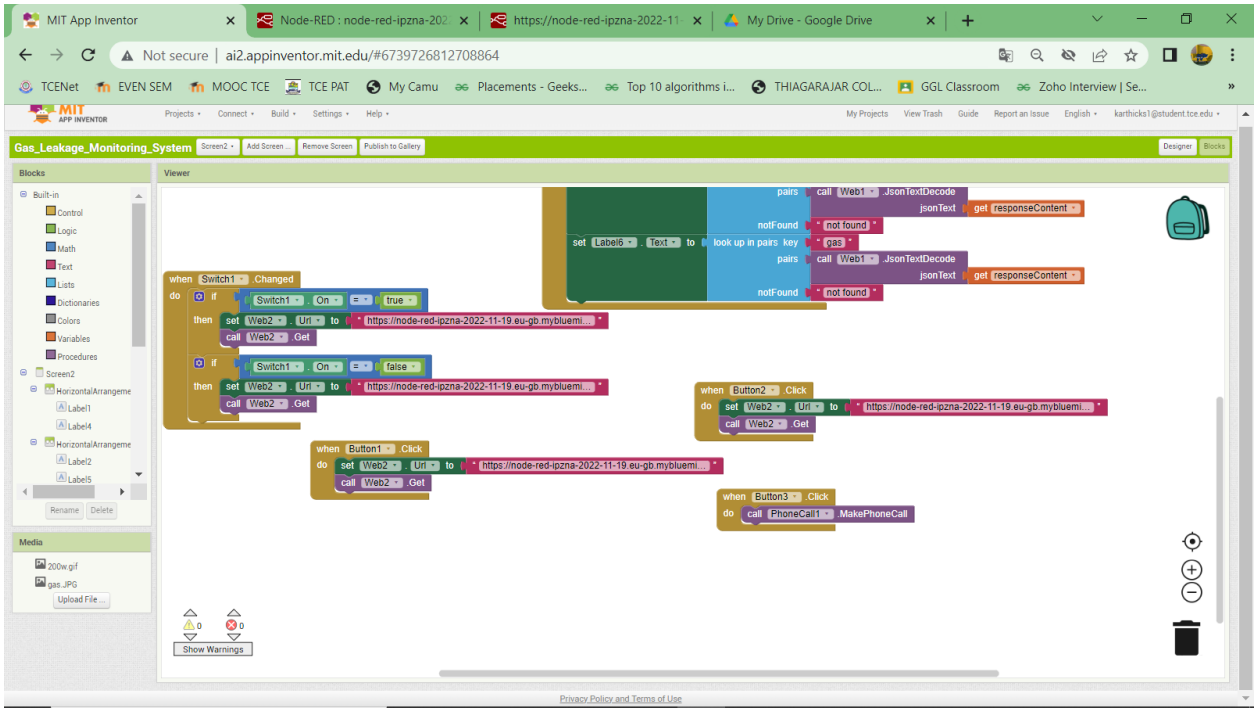


Generated link is pasted

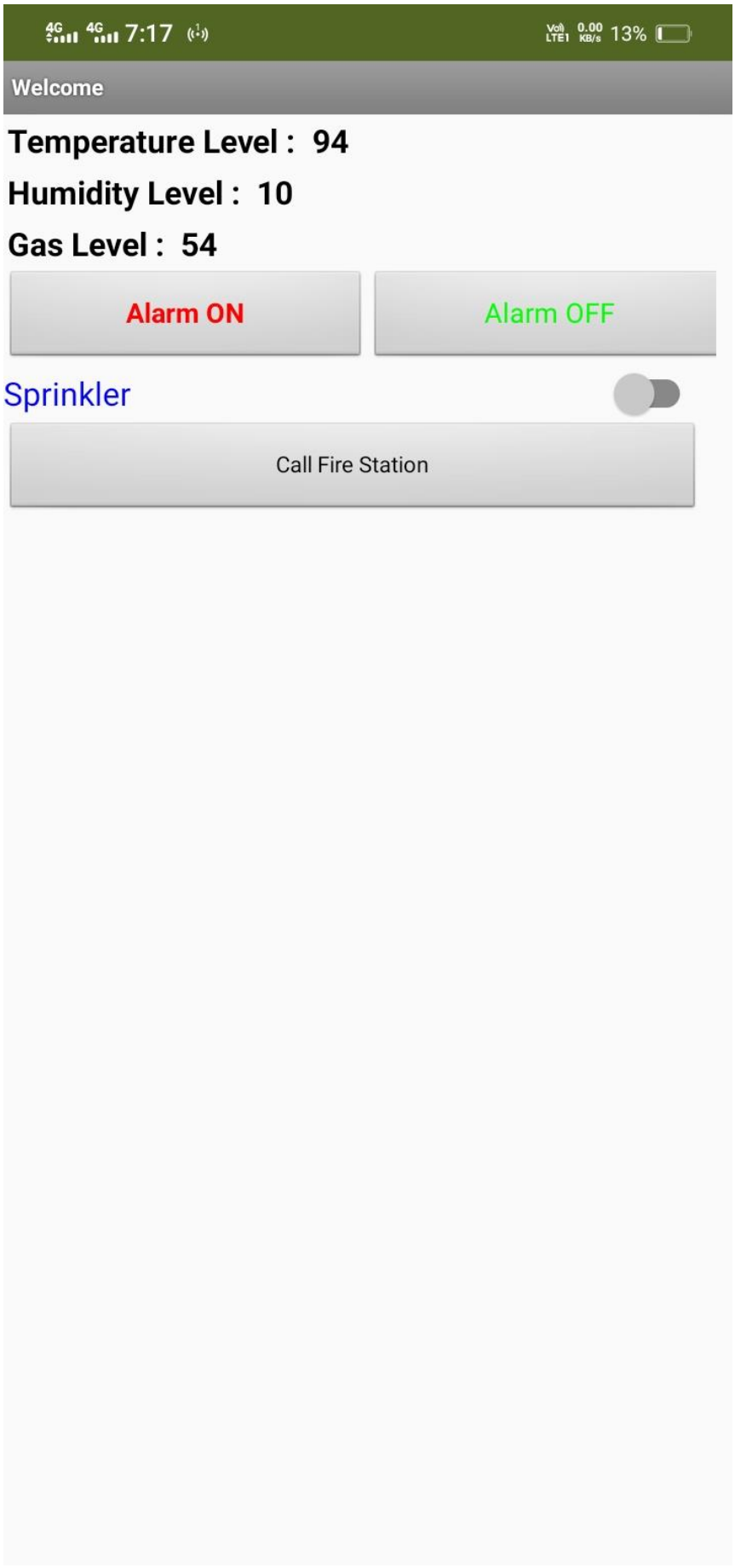
1. https://node-red-ipzna-2022-11-19.eu-gb.mybluemix.net/sensors
2. https://node-red-ipzna-2022-11-19.eu-gb.mybluemix.net/command?command=sprinkleron
3. https://node-red-ipzna-2022-11-19.eu-gb.mybluemix.net/command?command=sprinkleroff
4. https://node-red-ipzna-2022-11-19.eu-gb.mybluemix.net/command?command=alarmon
5. https://node-red-ipzna-2022-11-19.eu-gb.mybluemix.net/command?command=alarmoff

Paste the links in the sensor and button blocks and the results of blocks of backend is shown





The final input using MIT app inventor is displayed:


7:17
13%
Welcome
Temperature Level : 94
Humidity Level : 10
Gas Level : 54
Alarm ON
Alarm OFF
Sprinkler
Call Fire Station