Internship Title: Smart Agriculture System based on IOT - SB42054

Project ID:SPS_PRO_101
Project Title:Smart Agriculture system based on IoT
Project Mentor: Durgaprasad Sir from SmartBridge

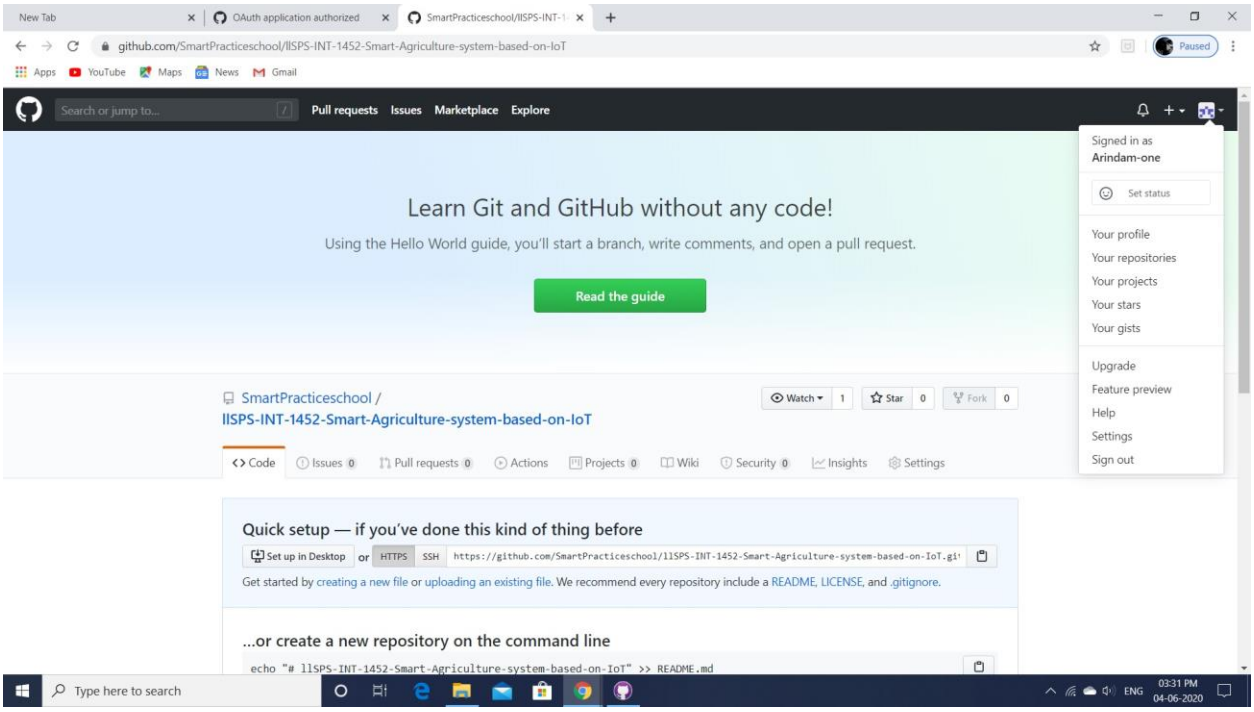
Report

Objective:

- To make a smart APP
- App will give the data from IOT sensor
- App will give the data from open weather api
- These information's will help to make smart agriculture concept possible.

- Setup The Development Environment:

Create GitHub Account: I have created my GitHub Account. Here, I have attached that snapshot.



2. Install Slack and Create Account: I have created that account and I have already asked my problems to do this internship.

3:36 PM 2.6KB/s 4G 59

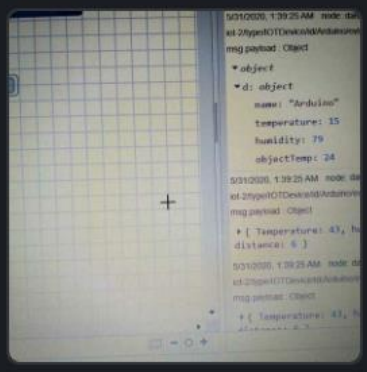
t thesmartbridgefreein...

internship

May 31st, 2020

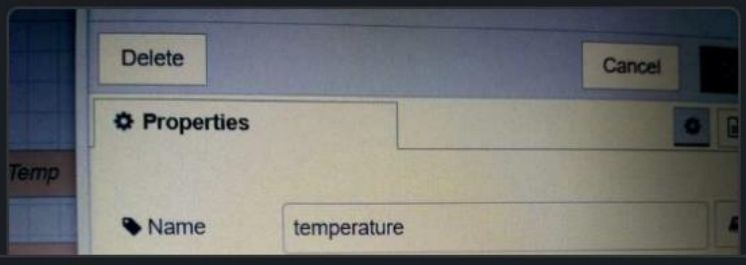
Arindam 2:17 AM

It is showing me "TypeError : cannot read property 'temperature of undefined"



2 replies

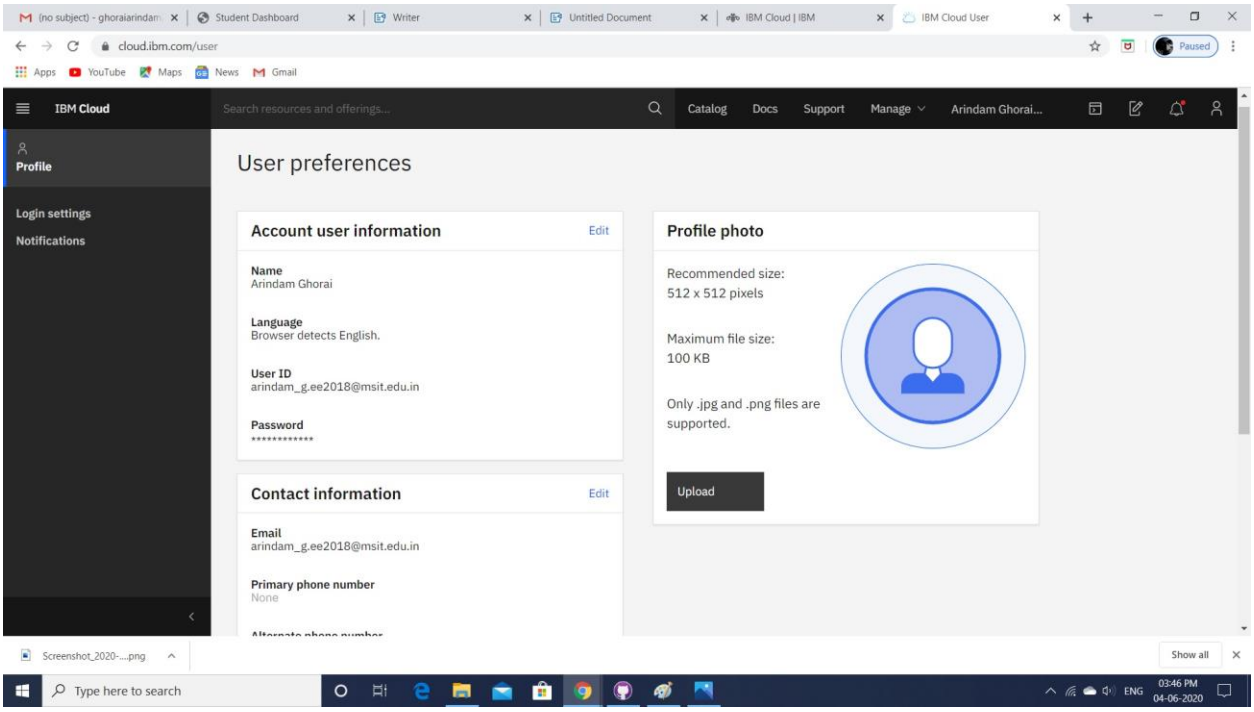
Once it is showing the right value,then next time it is showing error again next time showing right value and again error, it is continuing....



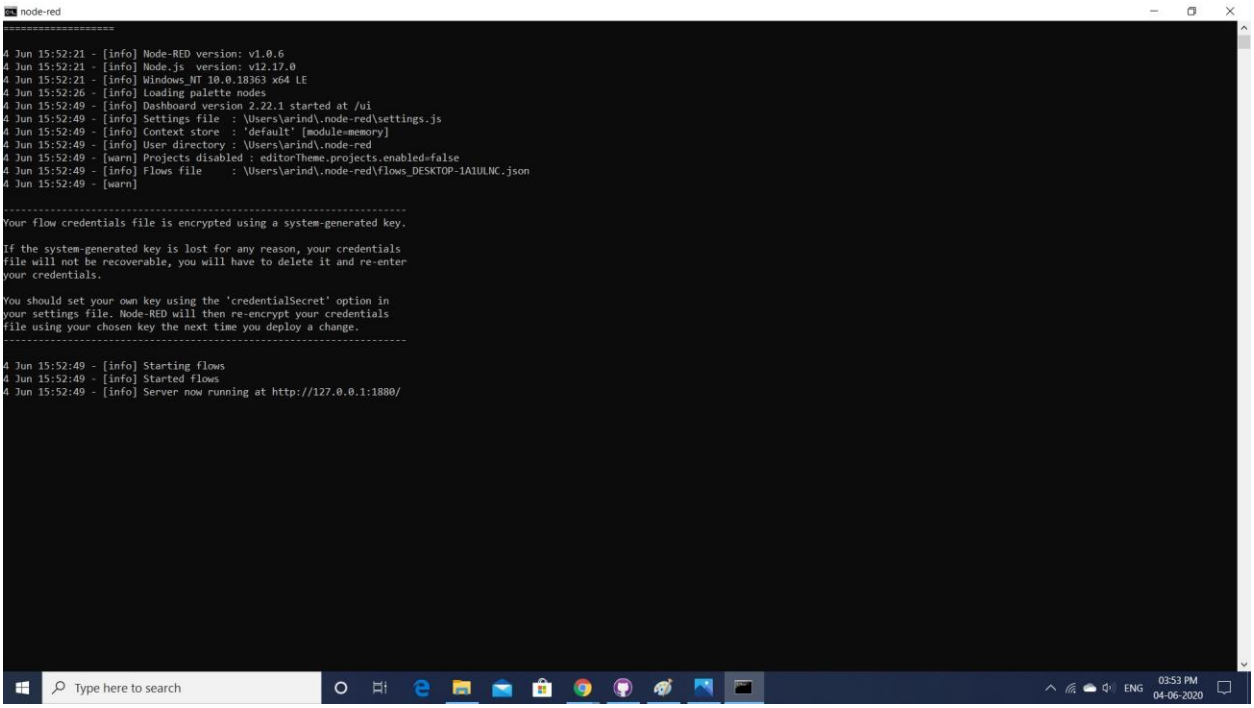
Message #internship

- Explore IBM Cloud Platform:

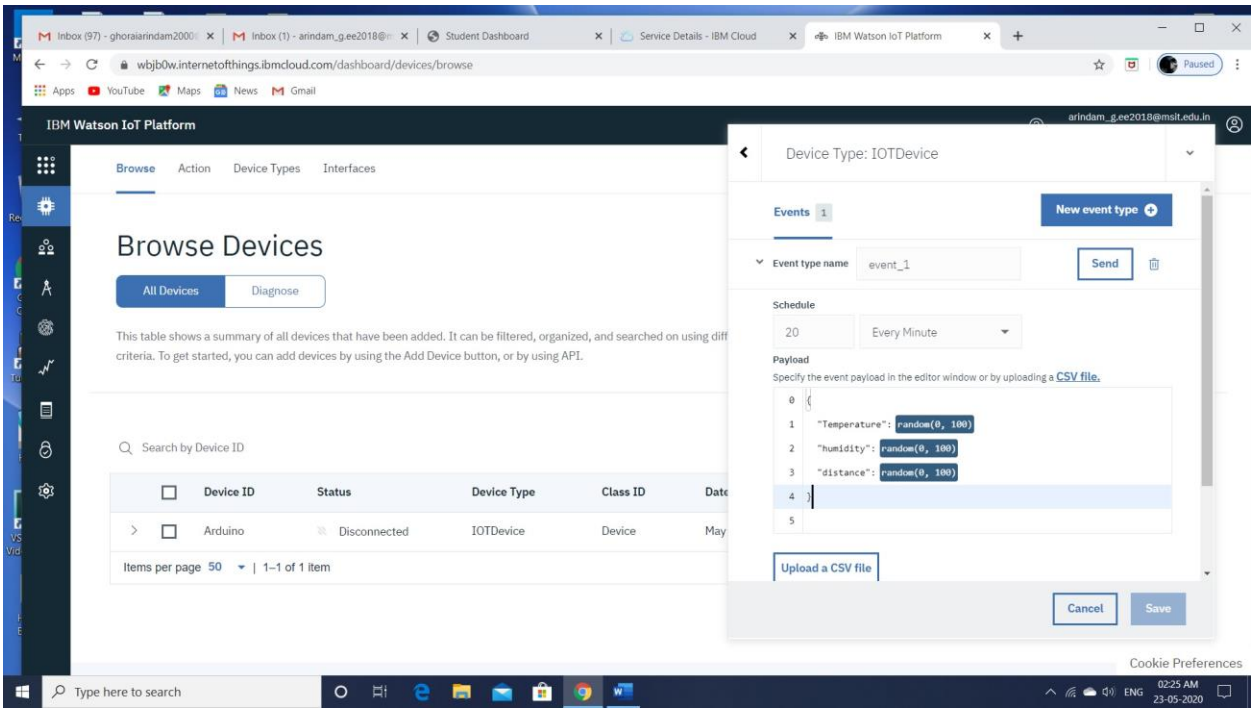
1. Create IBM Cloud Account: I have created my IBM cloud account.I am doing this project by using this. I have created it with my institutional mail id.

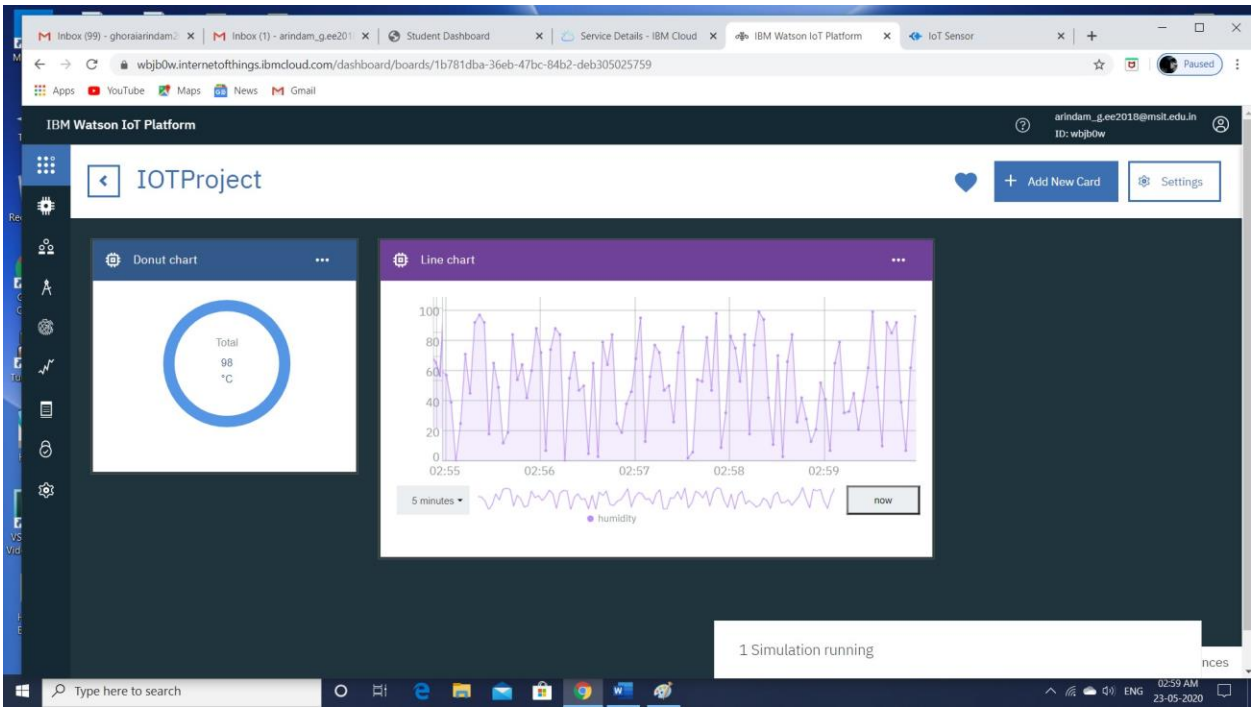


2. Install the Node-Red locally: I have installed it and ran it.

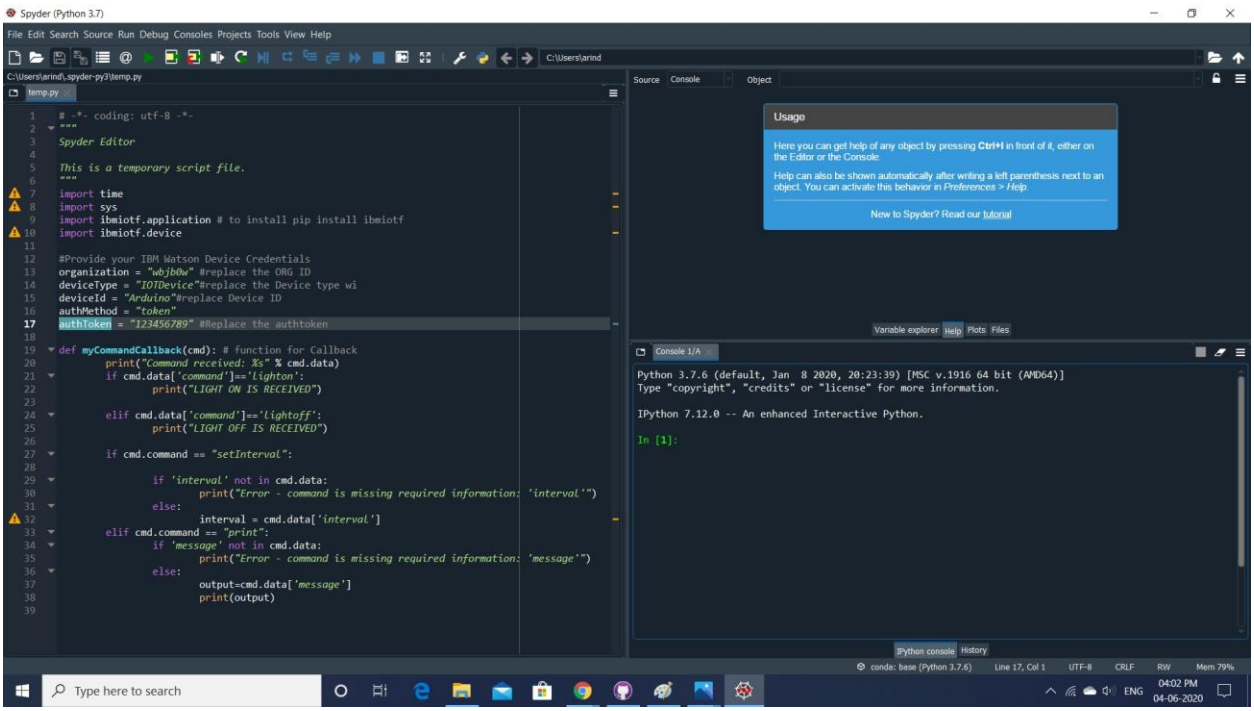


3. IBM Watson IOT Platform: I have created my account and working with it.

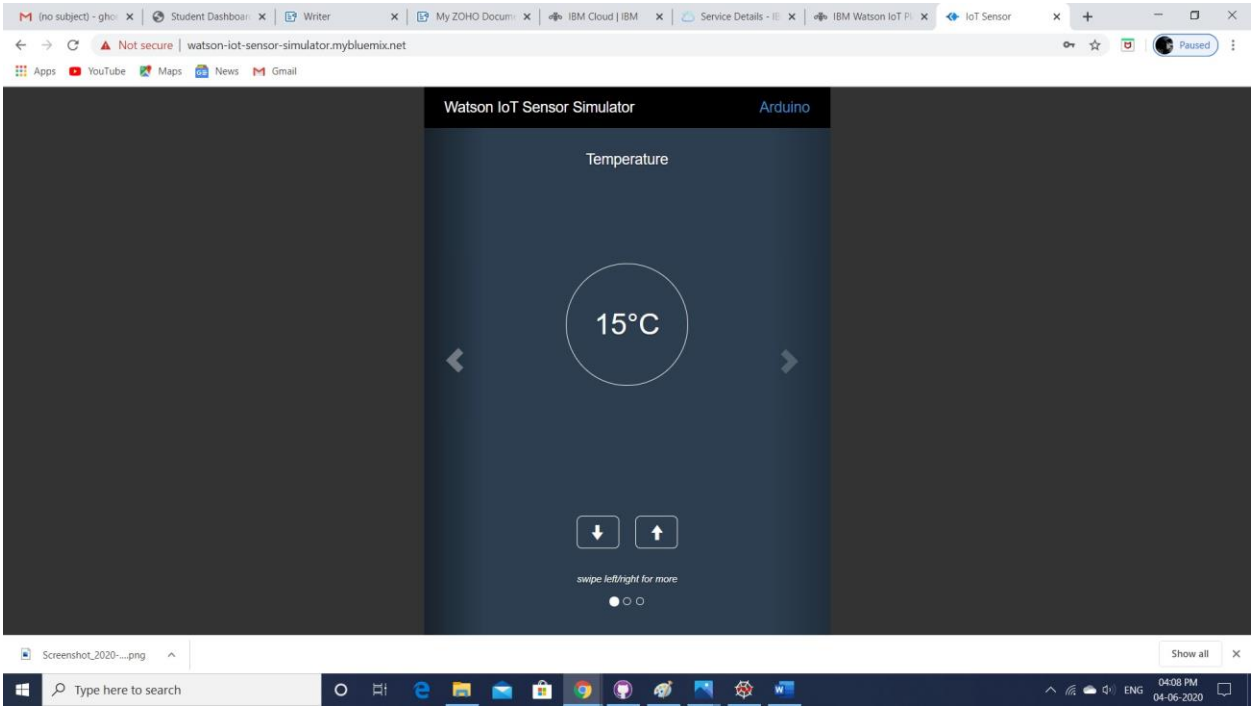




4. Install Python:I have a python software. So, till nosw I have not installed Python Idle as mentioned in eork space which has been given by smartinternz.

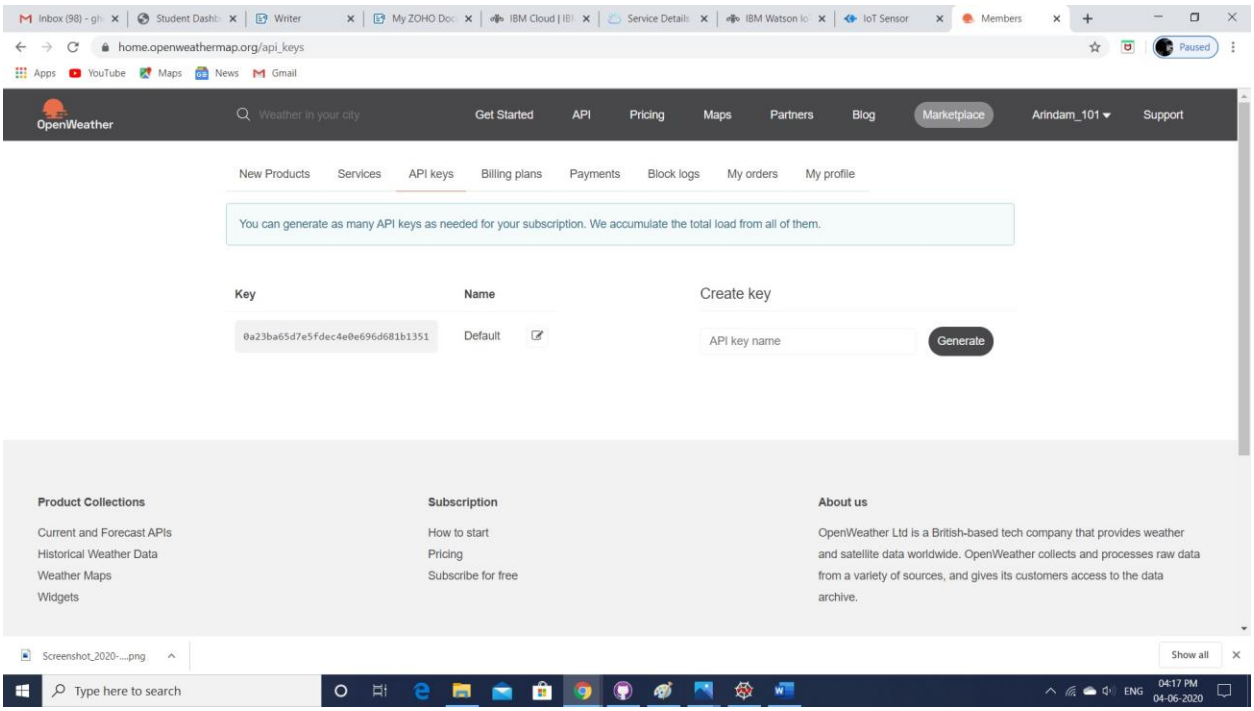


- **Connect The IOT Simulator To Watson IOT Platform**: Then, I have connected it with watson IOT Platform.

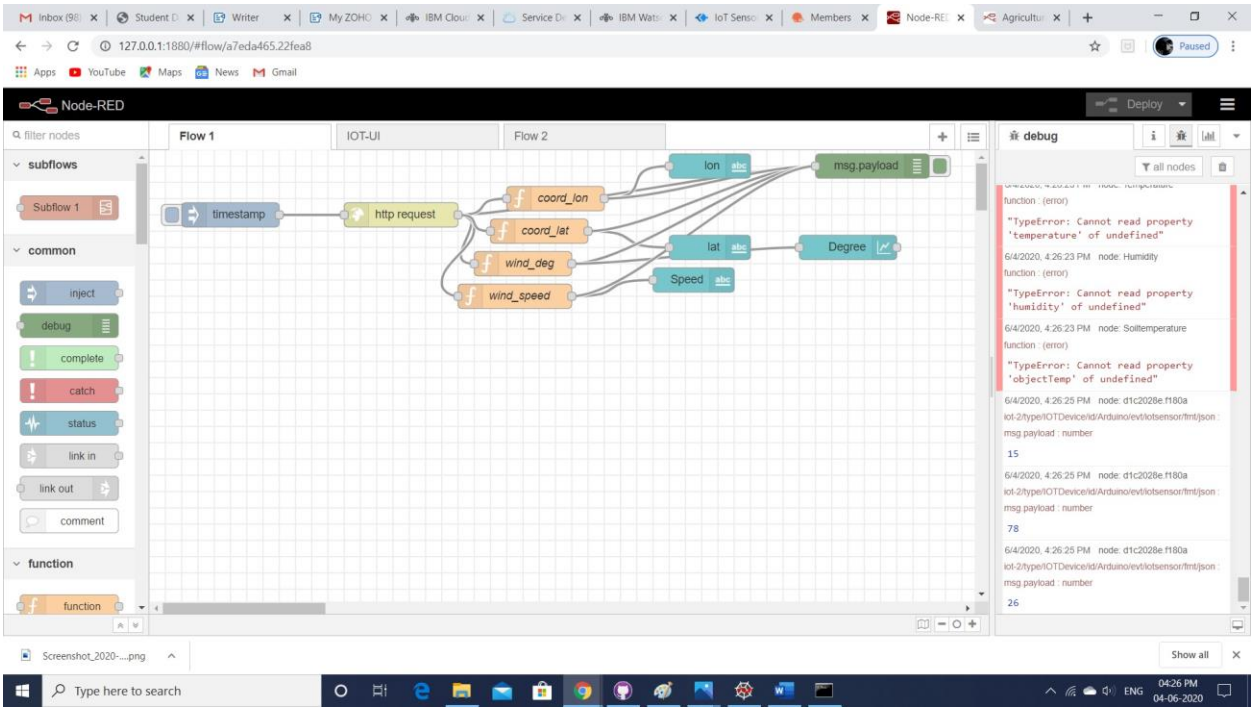


- **Configure The Nodered To Get The Data From IBM IOT Platform And Open Weather API:**

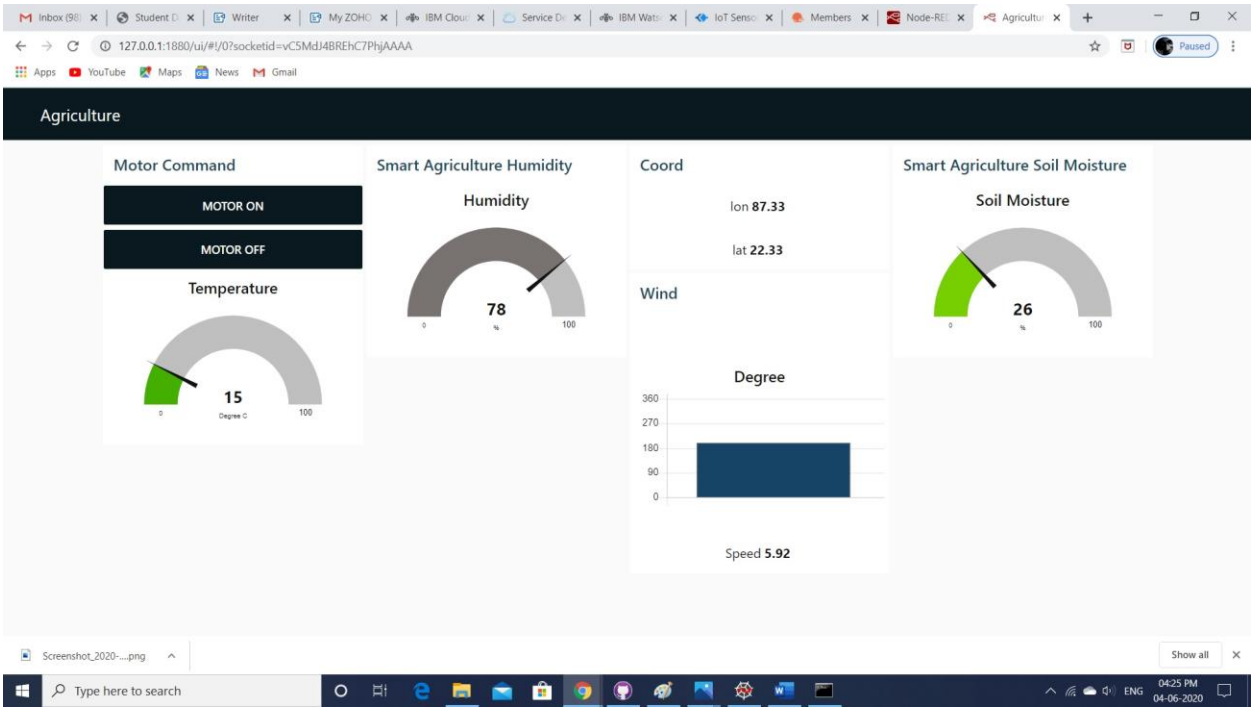
I have created my account on open weather api platform.



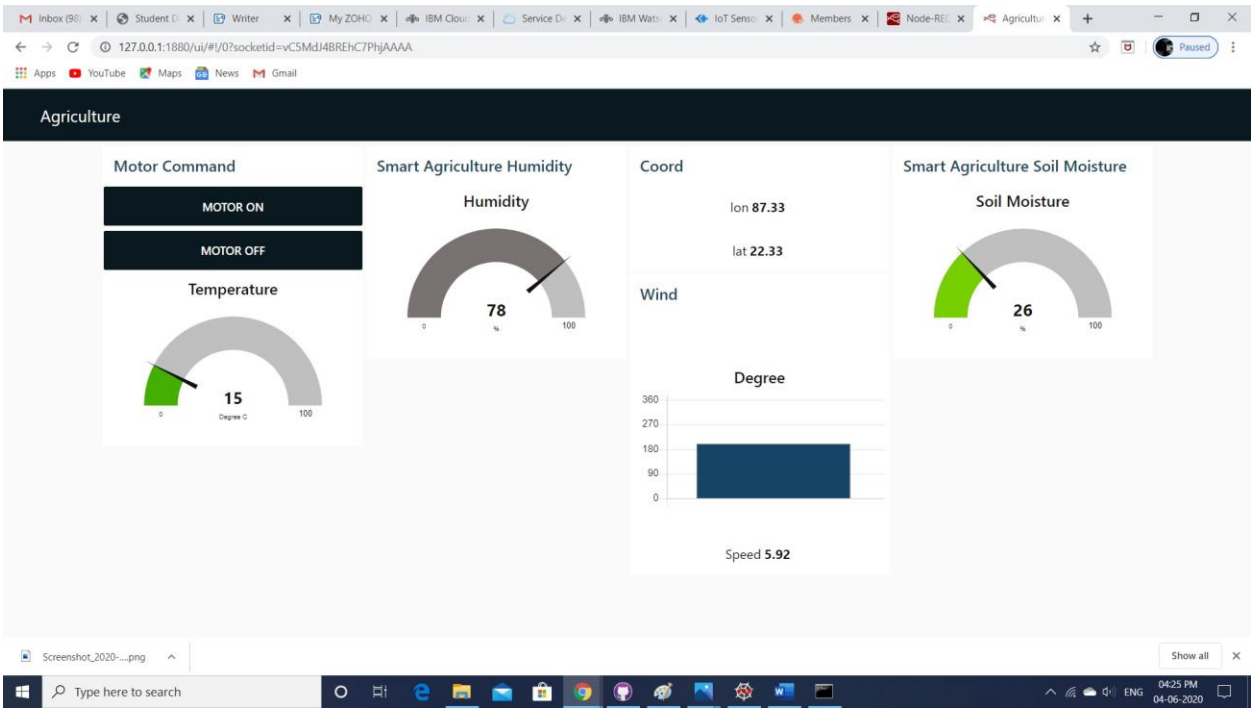
I have made my api key. Then, in city name place, I have entered my city name and then, I have generated on link and in the api key I have just put my city link and then api key and then I am able to get the data.



I am getting the weather data from http request. In the UI, You will see that value.

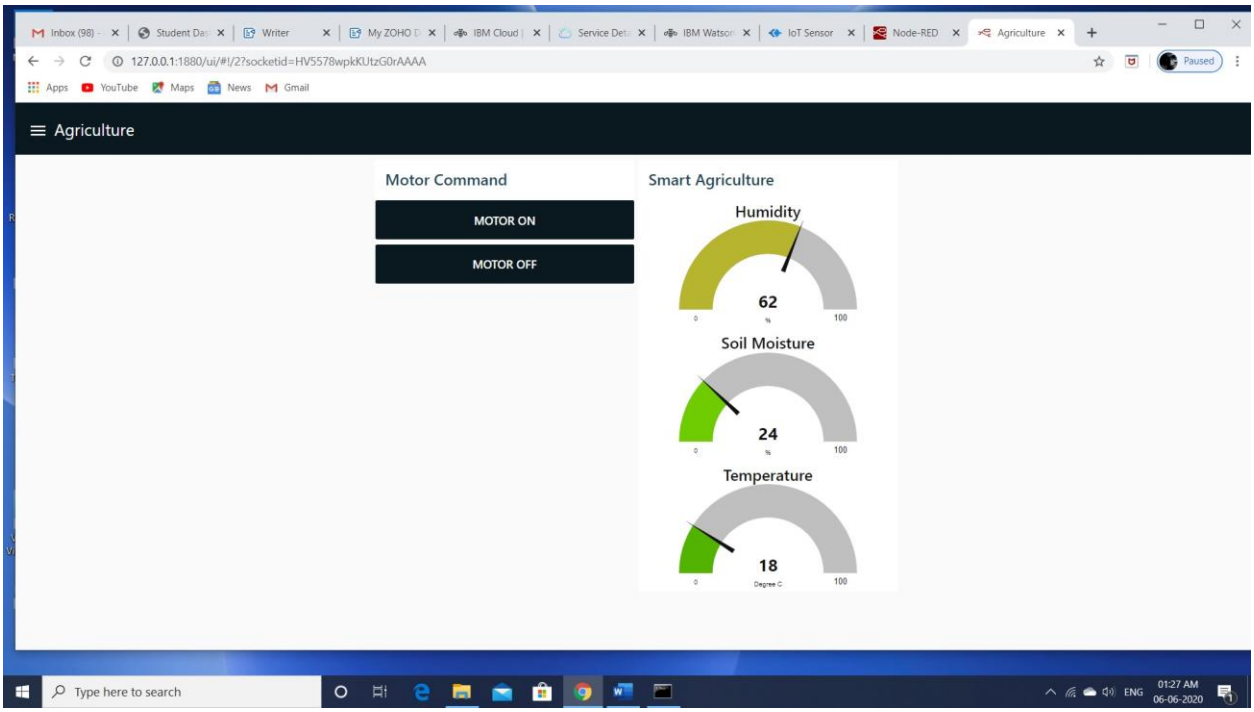


- **Building A Web App**: Web App building process is running. Trying to make a better UI.For, that reason only, process is still going on.

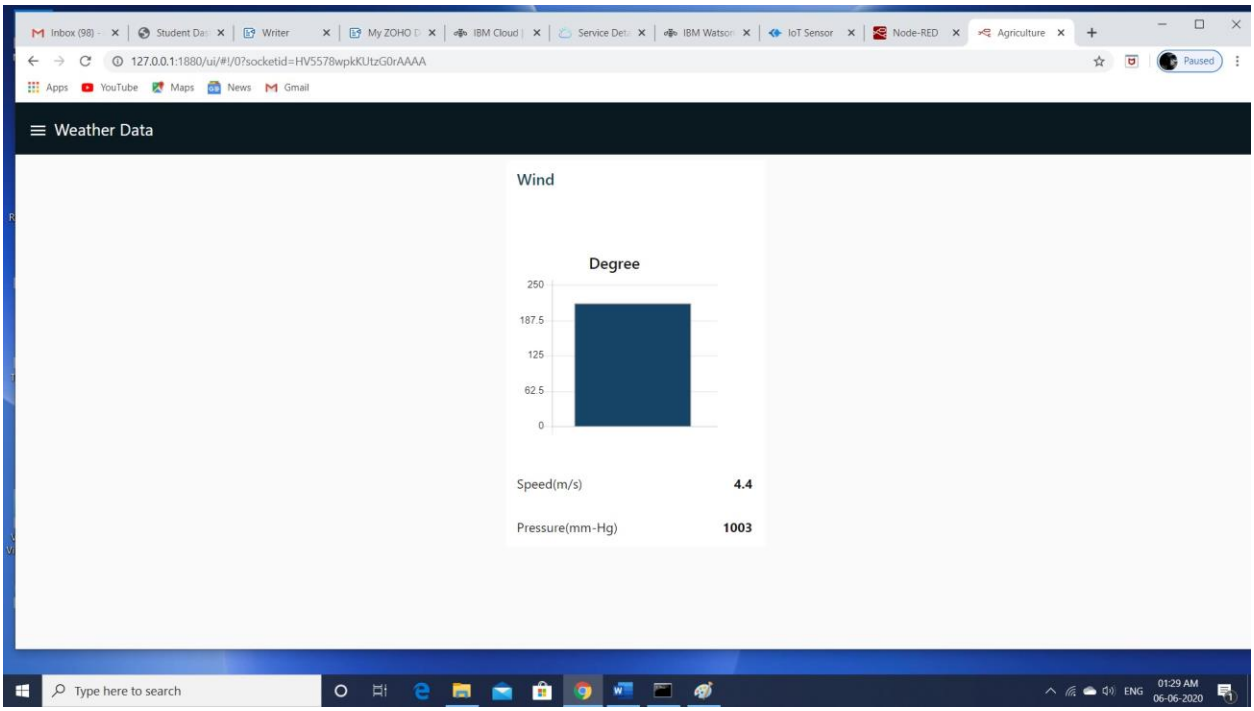


Final Outlook of MY APP

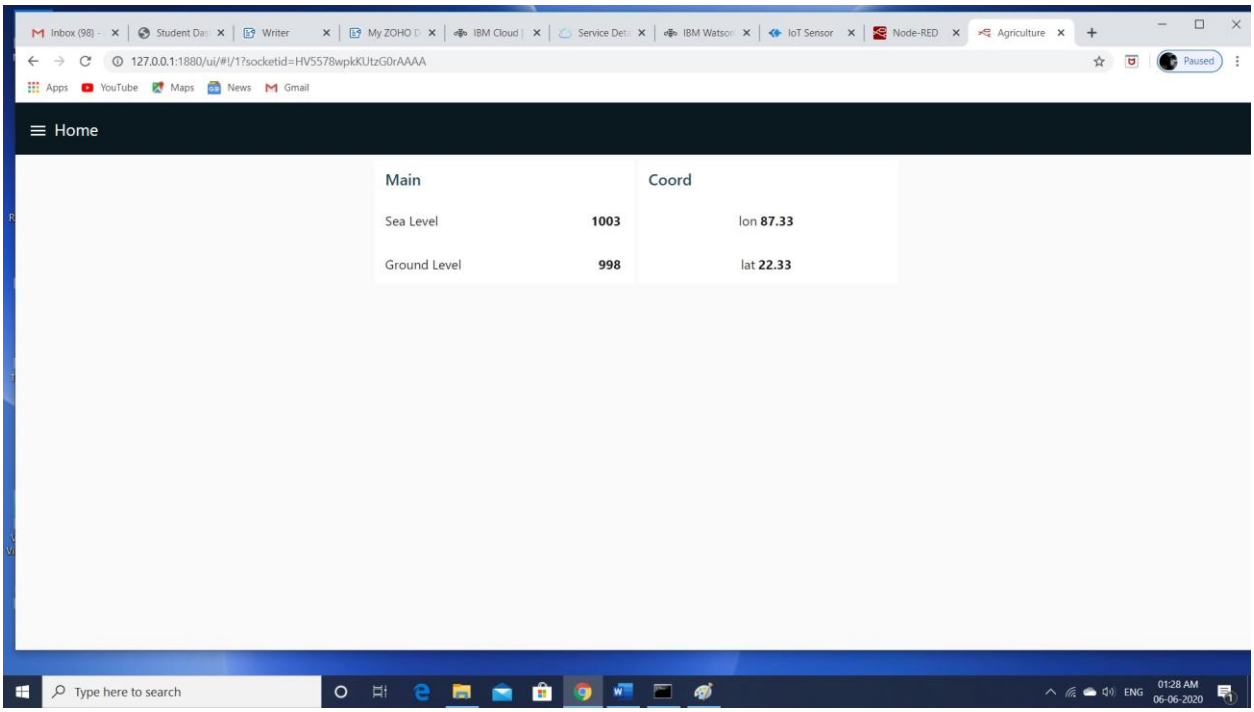
FINAL OUTLOOK OF AGRICULTURE SECTOR:
(DATA FROM IOT SENSOR):



Final LOOK of weather page but It will modify:

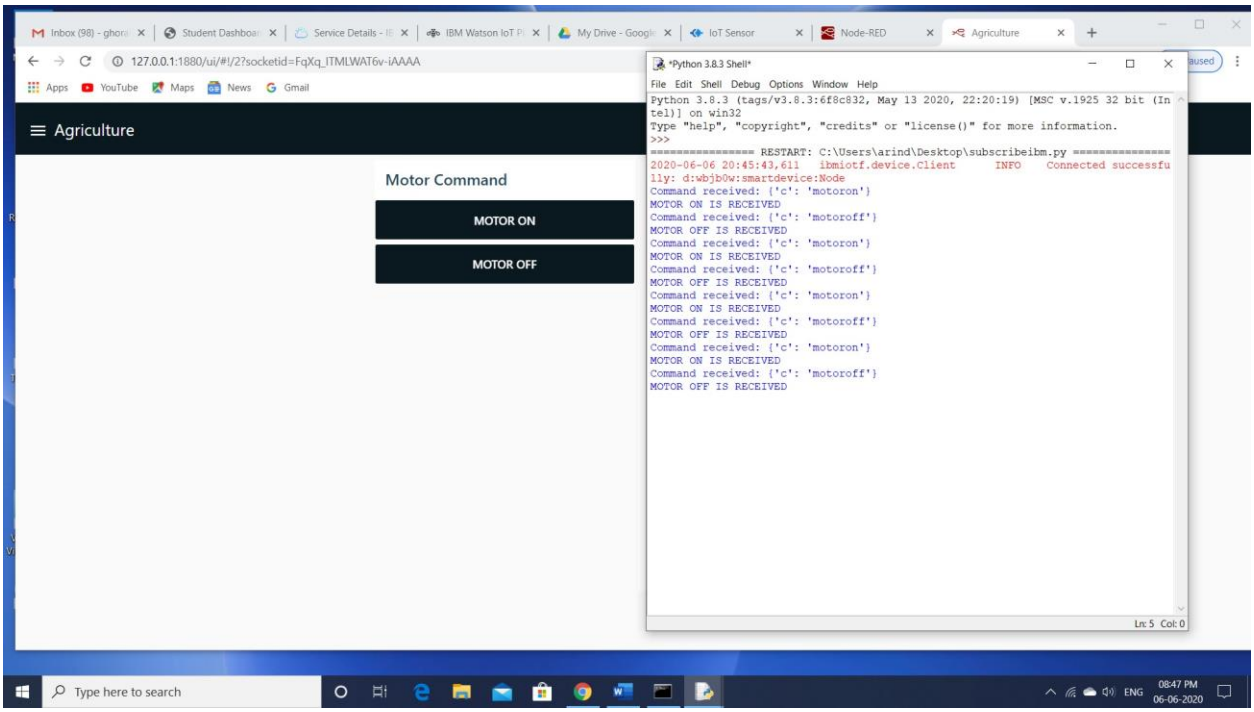


Final LOOK of home page(It will modify later):



- <u>Configure Your Device To Receive The Data From The Web Application And Control Your Motors:</u>

From UI, You can control motor on/off. I have successfully completed it. If you press motor on, on python platform you will see as a output it receives the signal "motor on" and in the same process you will see "motor off". I have attached my document.



In this process, I have completed my project.

Thank You!