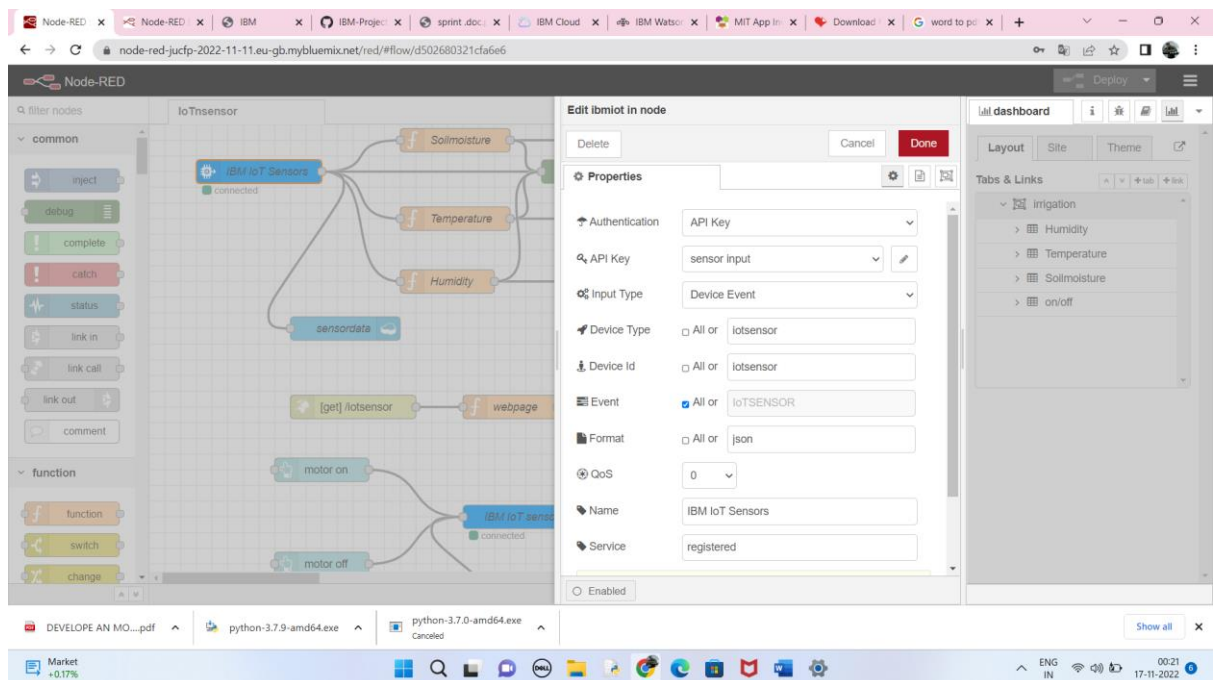


Sprint-3

Team ID	PNT2022TMID32030
Project Name	SMART FARMER - IOT ENABLED SMART FARMINGAPPLICATION SYSTEM

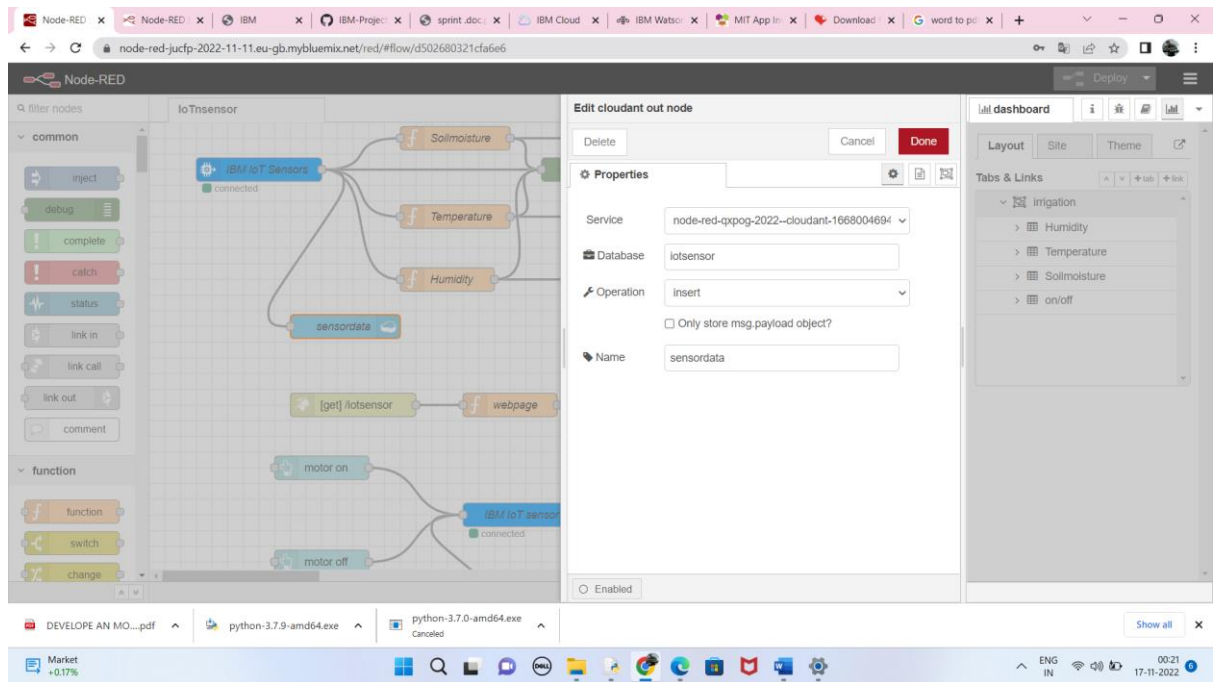
Configuration of Node-Red to send commands to IBM cloud :

- In IBM out node I used to send data from Node-Red to IBM Watson device. So, after adding it to the flow we need to configure it with credentials of our Watson device.

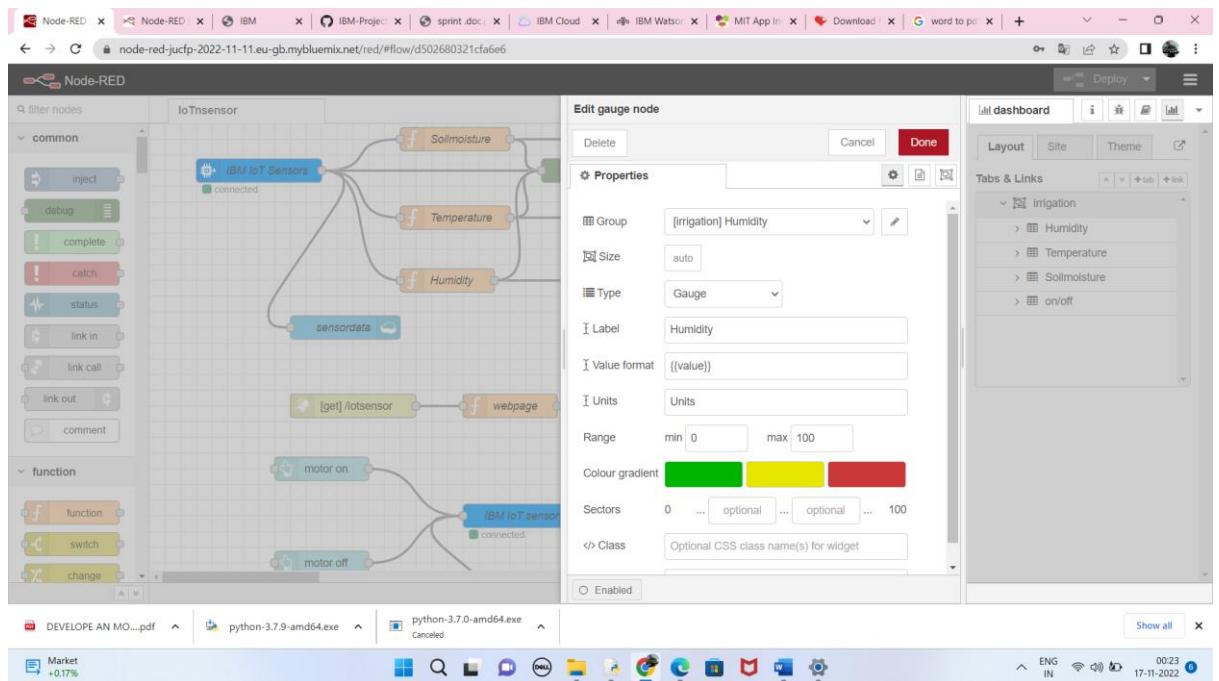


Nodered input connections from ibm Watson

CLOUD:



The cloudant connection where the data can be saved in iotsensor data packages



Connecting Soilmoisture, Humidity, Temperature functions with java script and connect them to the gauge and debug

Motor button :

Two button Motor ON and OFF

Coded with java script

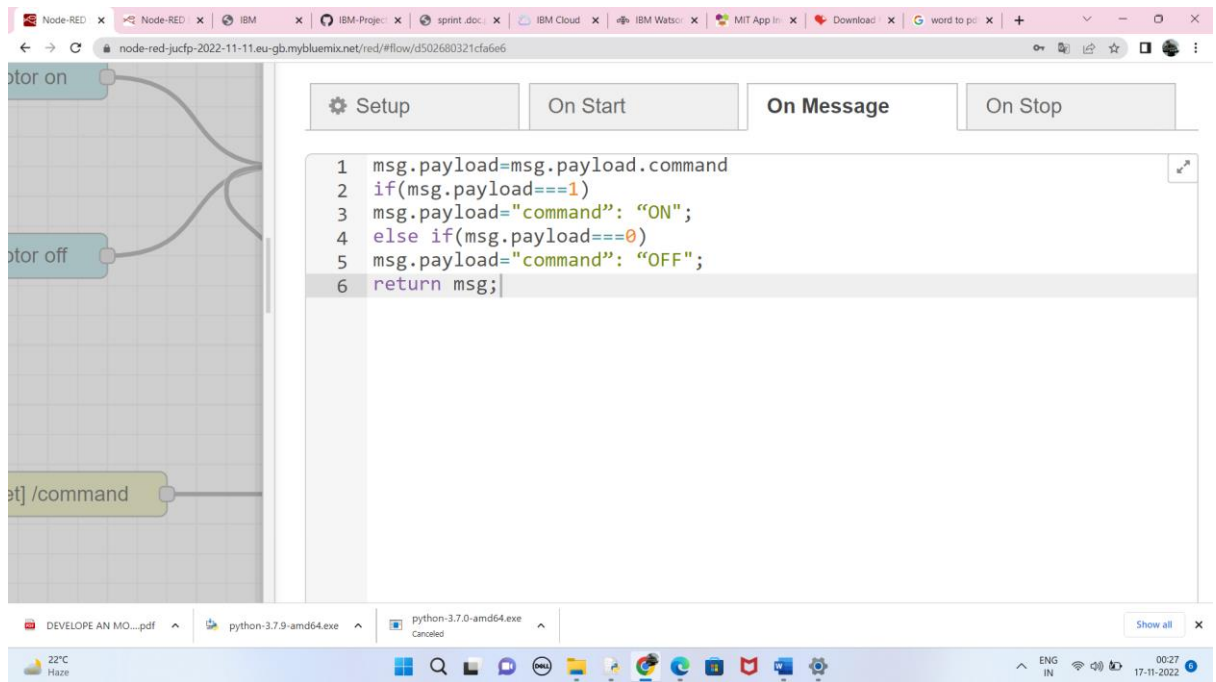
```
if(msg.payload===1)
```

```
  msg.payload={"command": "ON"};
```

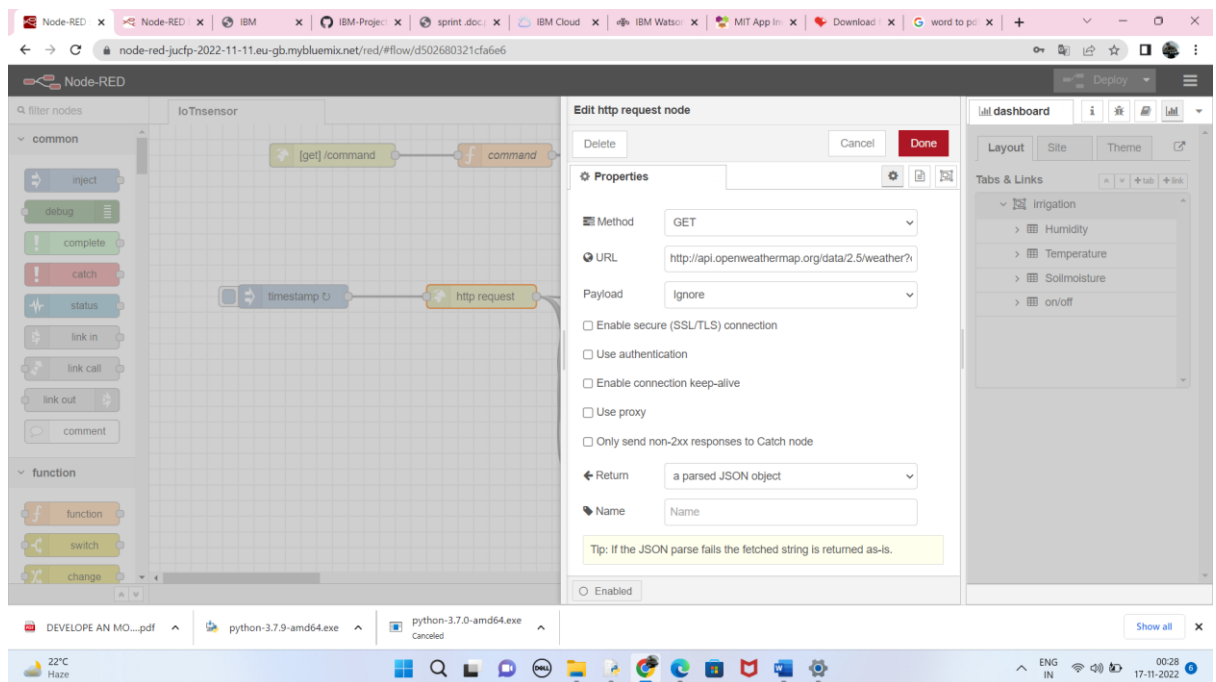
```
else if(msg.payload===0)
```

```
  msg.payload={"command": "OFF"}
```

The screenshot displays the Node-RED web interface in a browser. The main workspace shows a flow starting with an 'IBM IoT Sensors' node, which connects to three function nodes labeled 'Soilmoisture', 'Temperature', and 'Humidity'. These nodes feed into a 'sensordata' node. Below this, there is a 'motor on' button node and a 'motor off' button node, both connected to an 'IBM IoT Sensors' node. A 'webpage' node is also present, connected to a '[get] /lotsensor' node. The right sidebar shows the 'Edit button node' configuration for the 'motor on' button. The configuration includes a 'Group' of '[Irrigation] on/off', a 'Label' of 'motor on', and a 'Payload' of '1'. The 'When clicked, send:' section is also visible. The bottom status bar shows the system time as 00:26 on 17-11-2022.

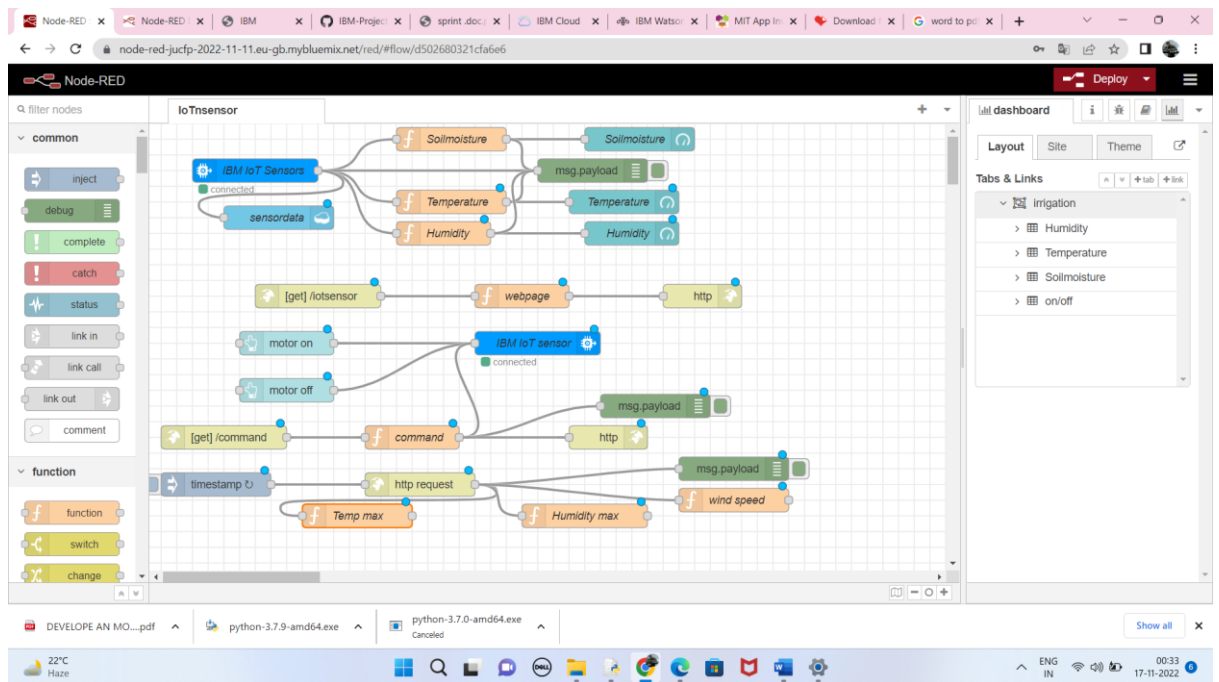


The IBM output connected to the command function for giving command to motor



The time stamp with interval connected with weather api http request to give a weather data of a particular region

COMPLETE PROGRAM FLOW:



and also developed an MIT app to show the reading and giving command