

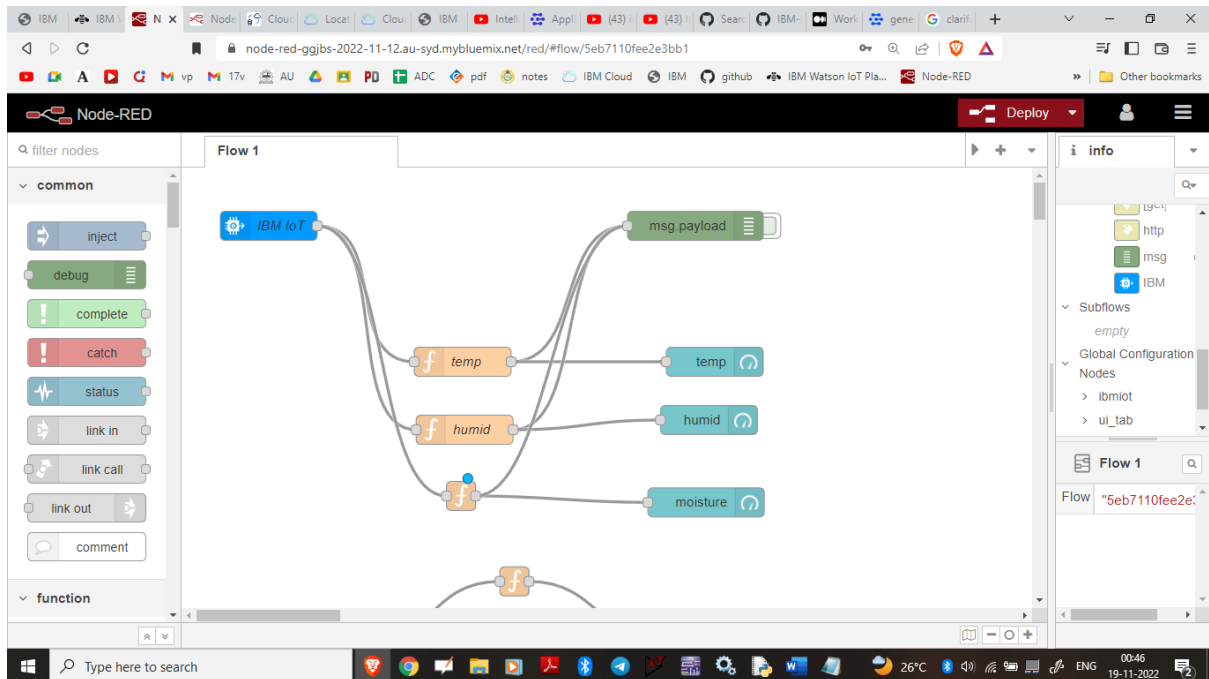
WEB APPLICATION USING NODERED

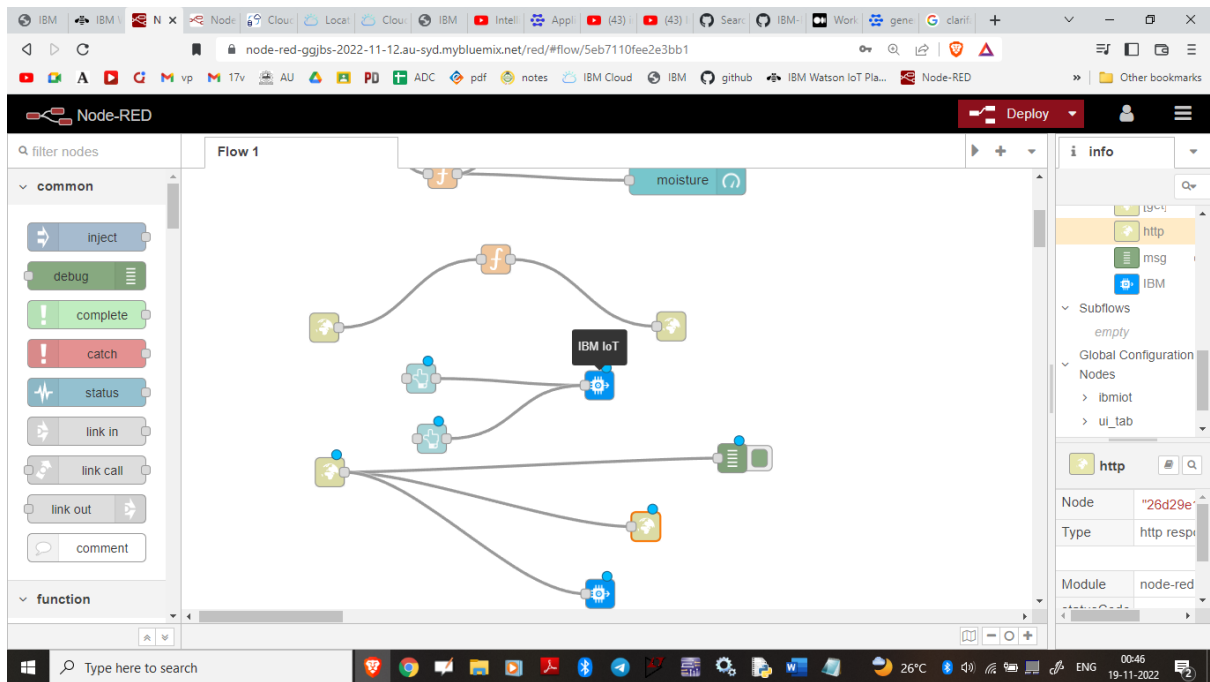
Date	18 NOVEMBER 2022
Team ID	PNT2022TMID29726
Project Name	Project – IoT based smart crop protection system for agriculture

Description:

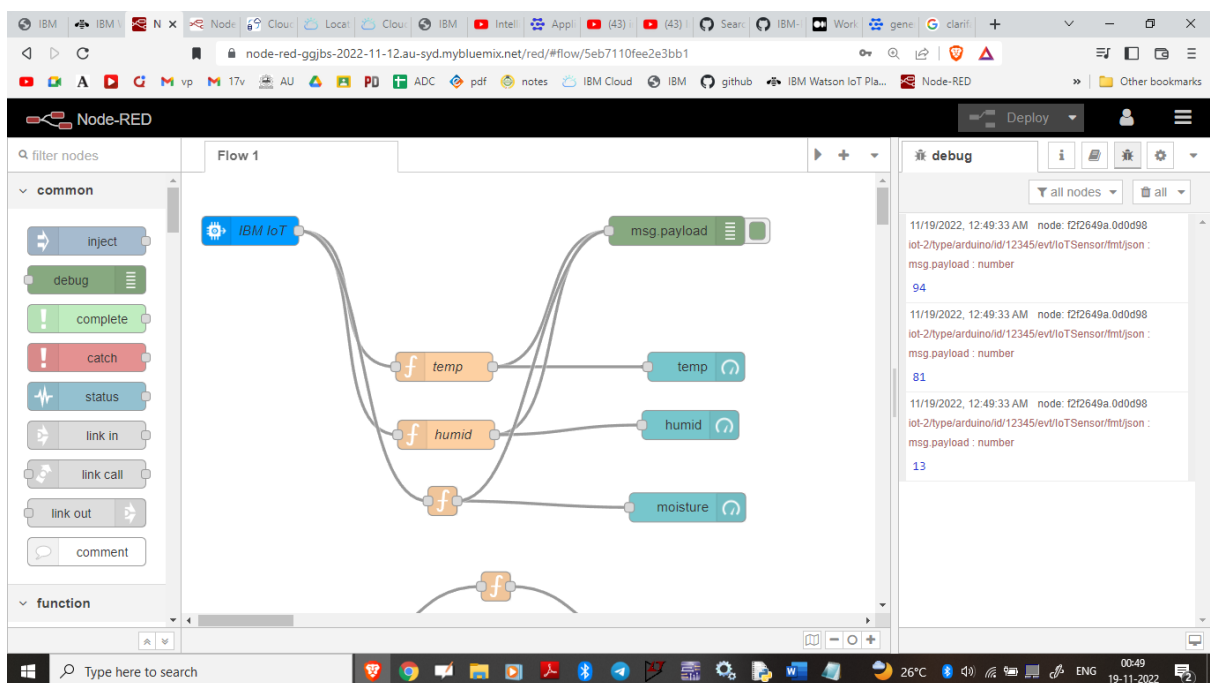
The web UI using the node red has been created in which the dashboard replicates the data obtained from the python code like temperature, humidity, soil moisture level and the animal invasion.

Based on the data from python the motor pump getting controlled using moisture values and alert will be sent.

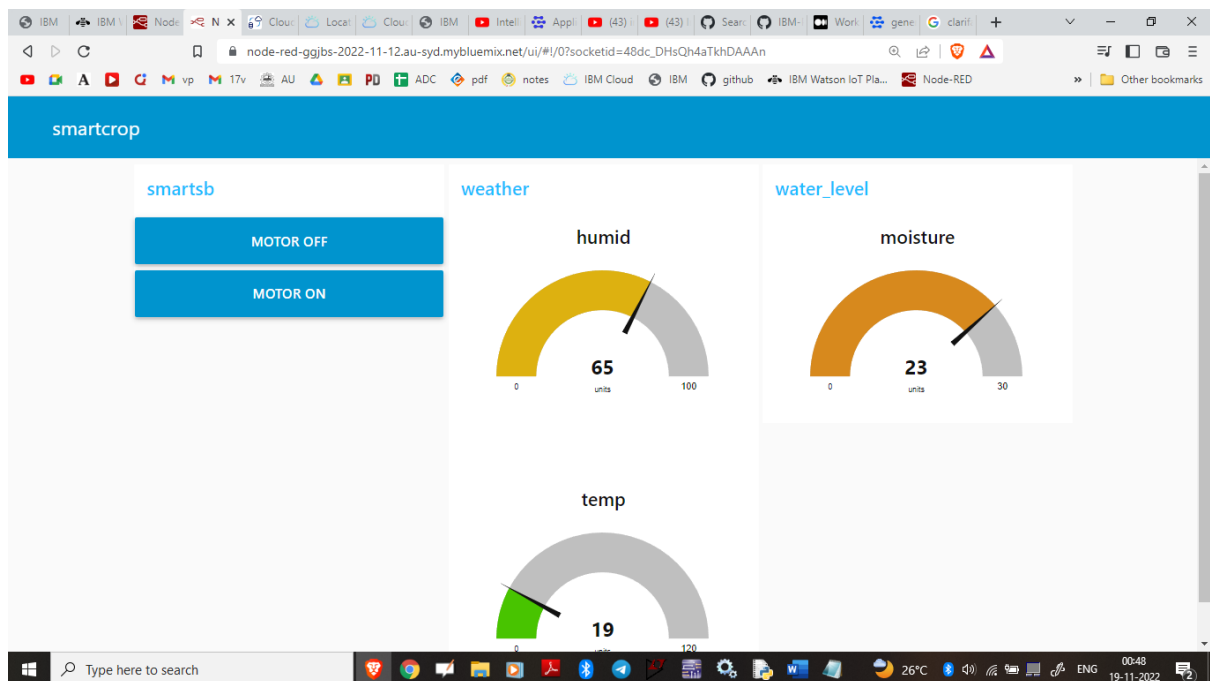




OUTPUT AT NODERED:



WEB UI VIEW:



OUTPUT FROM PYTHON CODE:

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Published Temperature = 90 C Humidity = 69 % Moisture = 13 % to IBM Watson
Published Temperature = 98 C Humidity = 61 % Moisture = 18 % to IBM Watson
Command received: motoroff
MOTOR is off
Command received: motoroff
MOTOR is off
Command received: motoron
MOTOR is on
Command received: motoron
MOTOR is on
Published Temperature = 92 C Humidity = 69 % Moisture = 13 % to IBM Watson
Published Temperature = 90 C Humidity = 85 % Moisture = 24 % to IBM Watson
Published Temperature = 108 C Humidity = 85 % Moisture = 13 % to IBM Watson
Published Temperature = 95 C Humidity = 86 % Moisture = 28 % to IBM Watson
Published Temperature = 105 C Humidity = 92 % Moisture = 20 % to IBM Watson
Command received: motoroff
MOTOR is off
Command received: motoroff
MOTOR is off
Command received: motoroff
MOTOR is off
Command received: motoron
MOTOR is on
Command received: motoron
MOTOR is on
Command received: motoron
MOTOR is on
Published Temperature = 93 C Humidity = 78 % Moisture = 19 % to IBM Watson
Command received: motoroff
MOTOR is off
Command received: motoron
MOTOR is on
Published Temperature = 102 C Humidity = 61 % Moisture = 12 % to IBM Watson
Command received: motoroff
MOTOR is off
Published Temperature = 90 C Humidity = 80 % Moisture = 18 % to IBM Watson
Published Temperature = 99 C Humidity = 66 % Moisture = 23 % to IBM Watson
Published Temperature = 93 C Humidity = 91 % Moisture = 21 % to IBM Watson
Published Temperature = 109 C Humidity = 76 % Moisture = 30 % to IBM Watson
Published Temperature = 110 C Humidity = 88 % Moisture = 28 % to IBM Watson
Published Temperature = 109 C Humidity = 72 % Moisture = 15 % to IBM Watson
```