SPRINT IV

Team ID	PNT2022TMID23131
Project Name	IOT Enabled Smart Farming Application

DOMAIN: IOT – Internet Of Things

TEAM MEMBERS:

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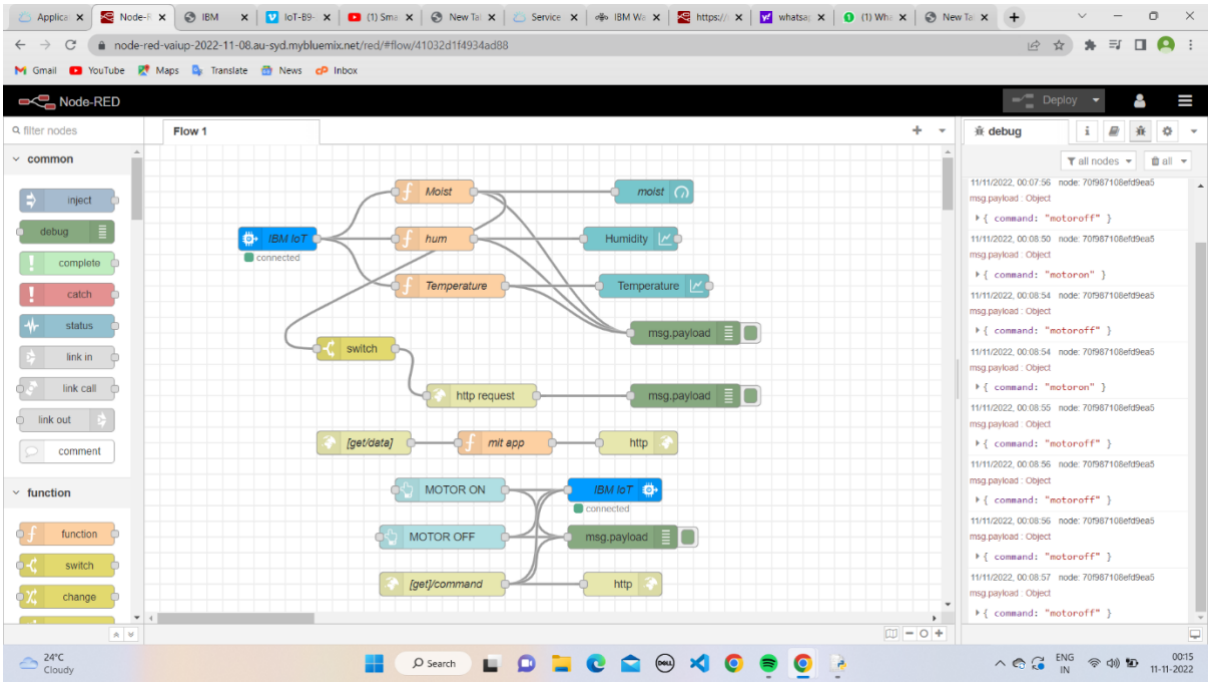
Srinithi A (913119106109)

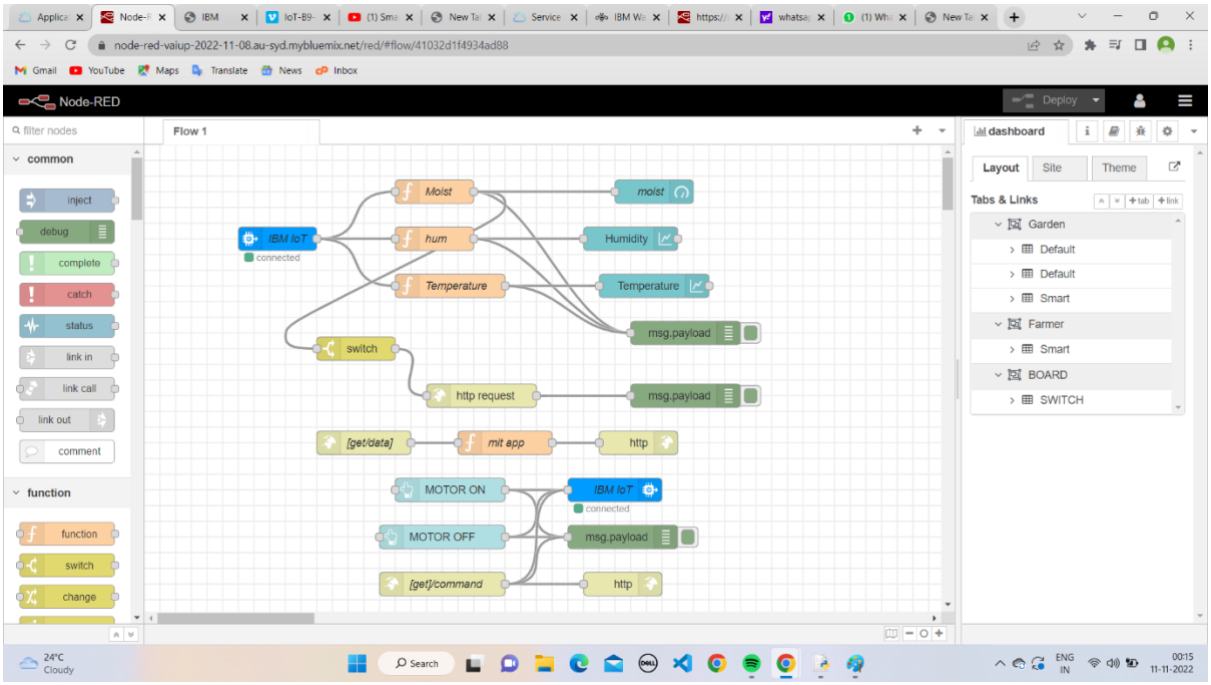
Priya M (913119106079)

Sprint IV :WEB APPLICATION

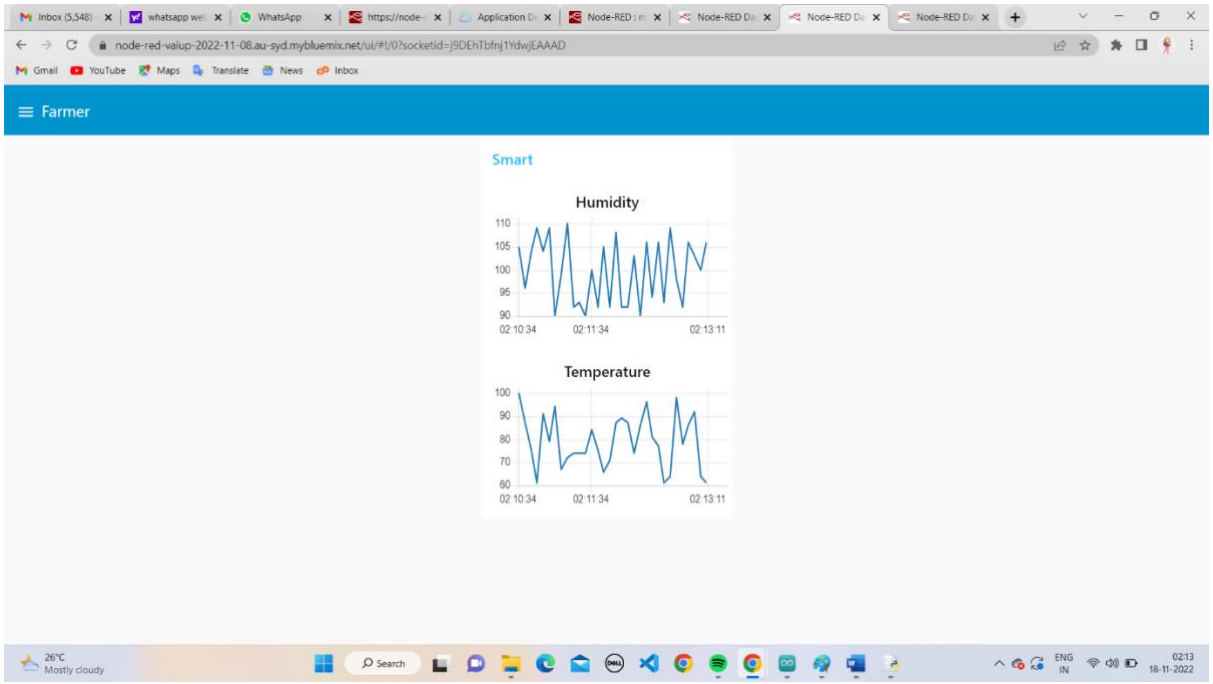
Creation of Webpage using NODE RED Via IBM Cloud



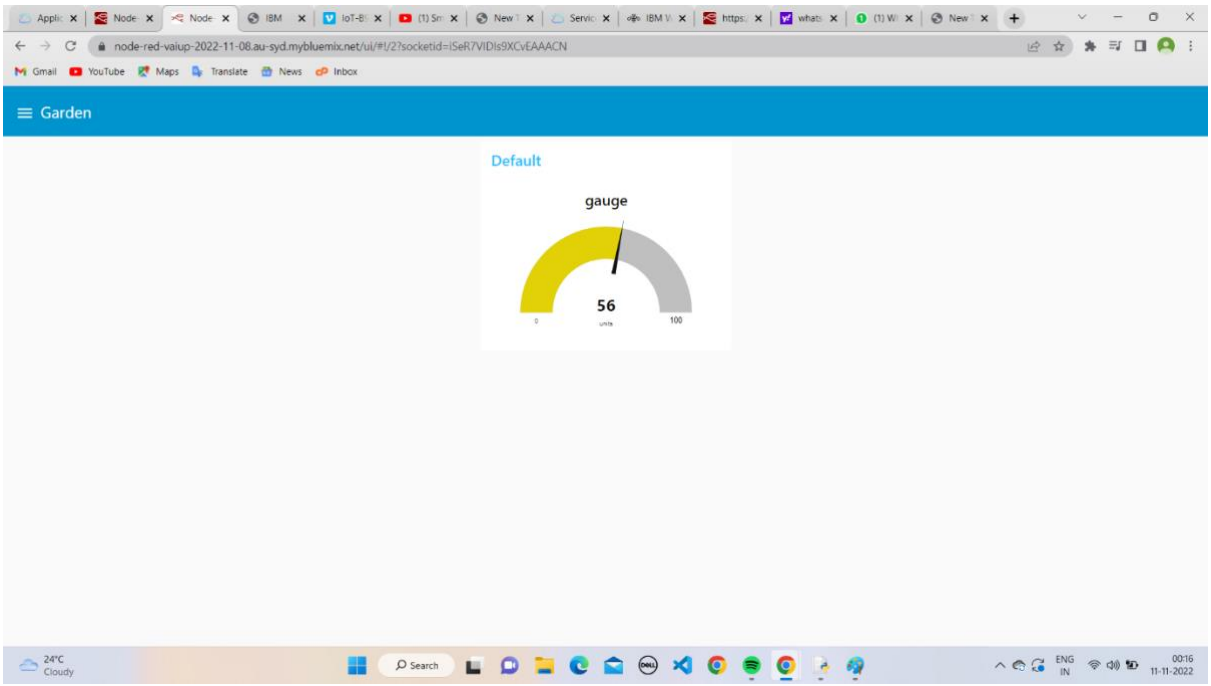
1) In NODE RED Page once we click the dashboard and then the right arrow present beside tabs& links shown below we would be directed to the webpage.

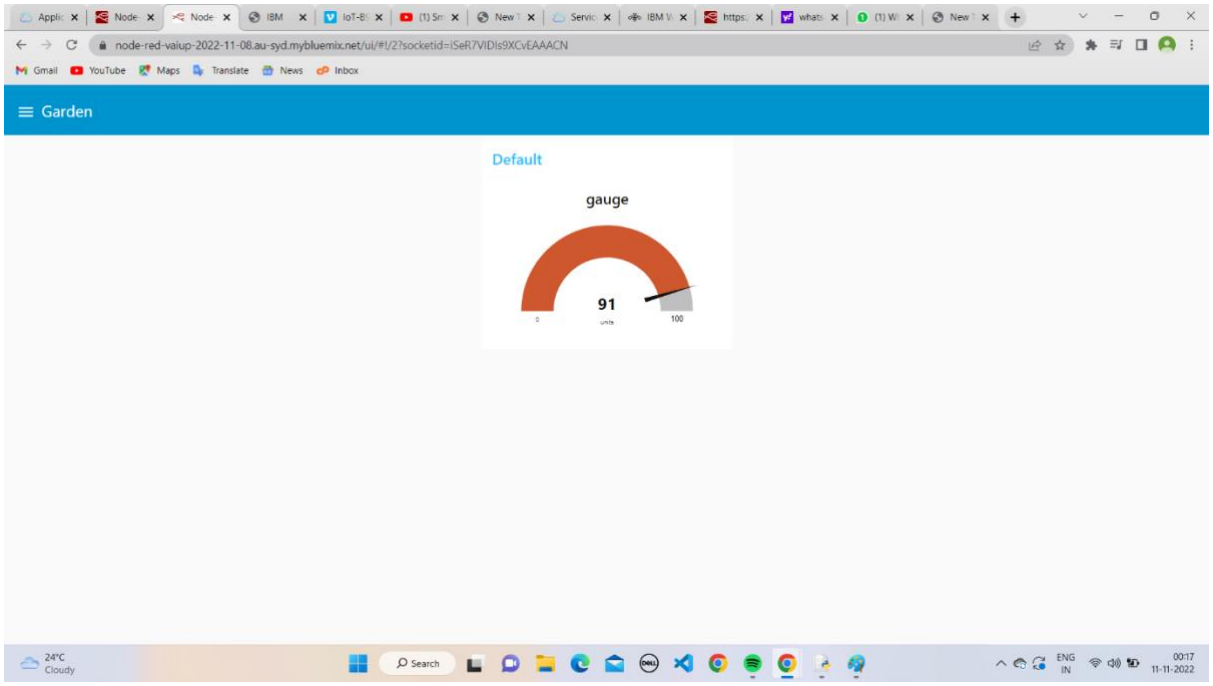


2)The below chart shows the obtained values of Humidity and temperature for past 1 hour.

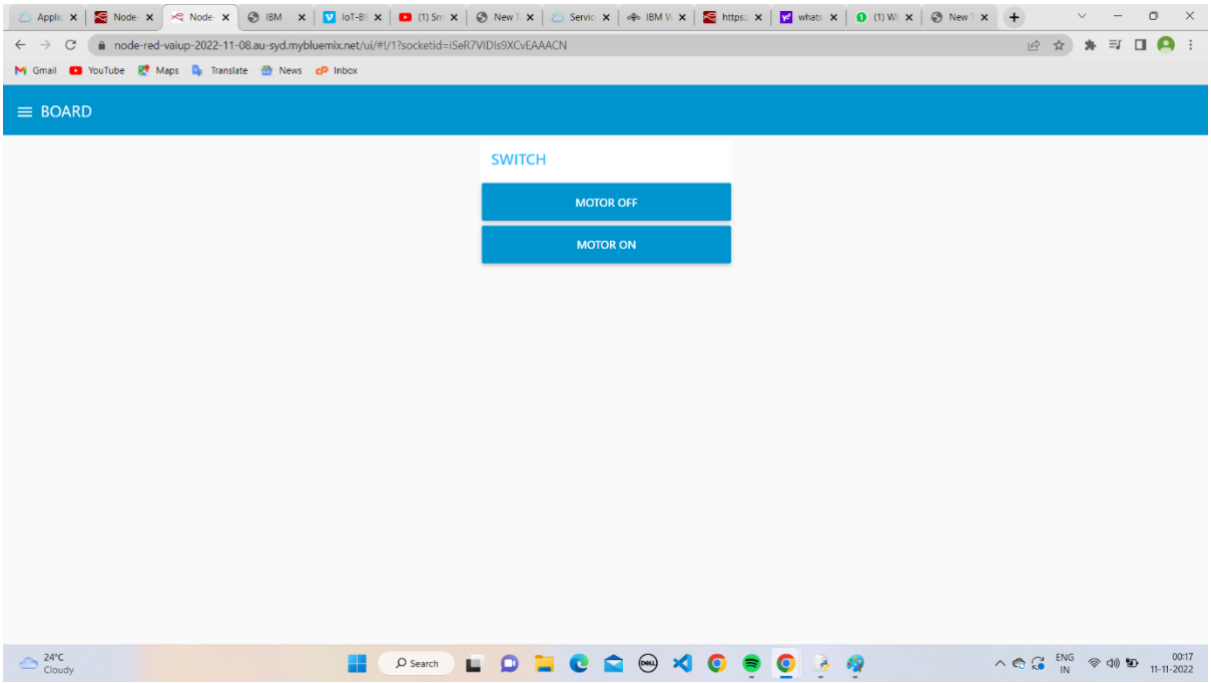


3)The below gauge shows the obtained value of Moisture and the color variations used to indicate the low moisture high moisture levels.

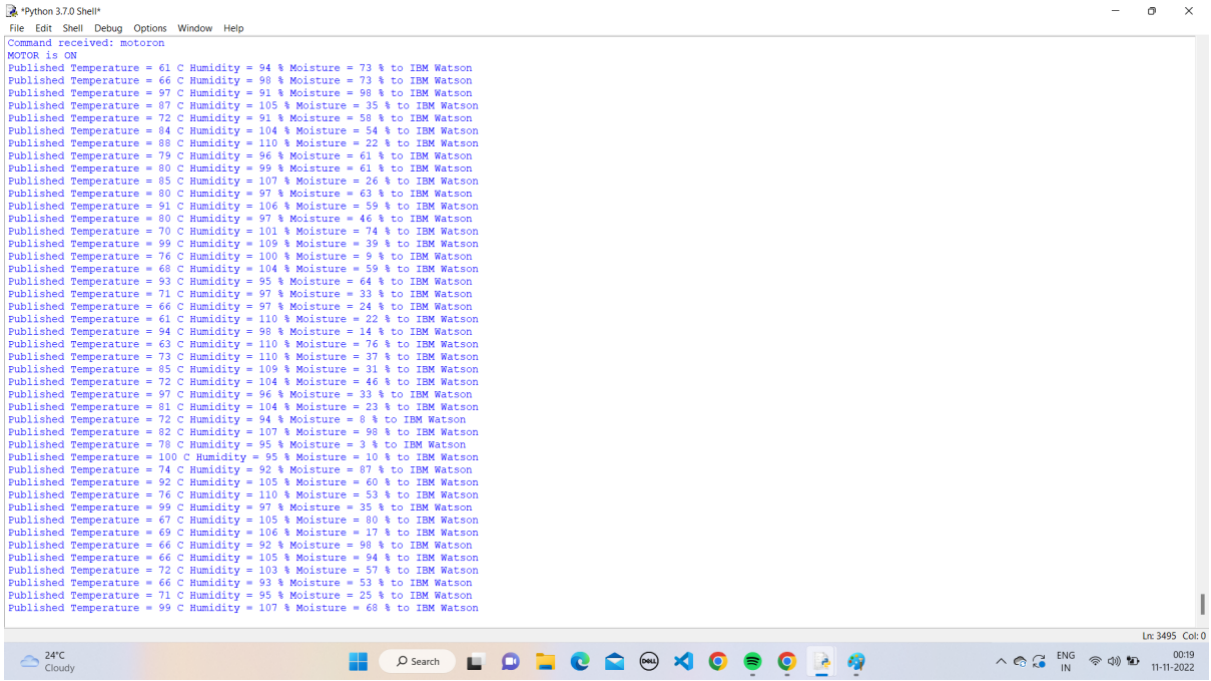


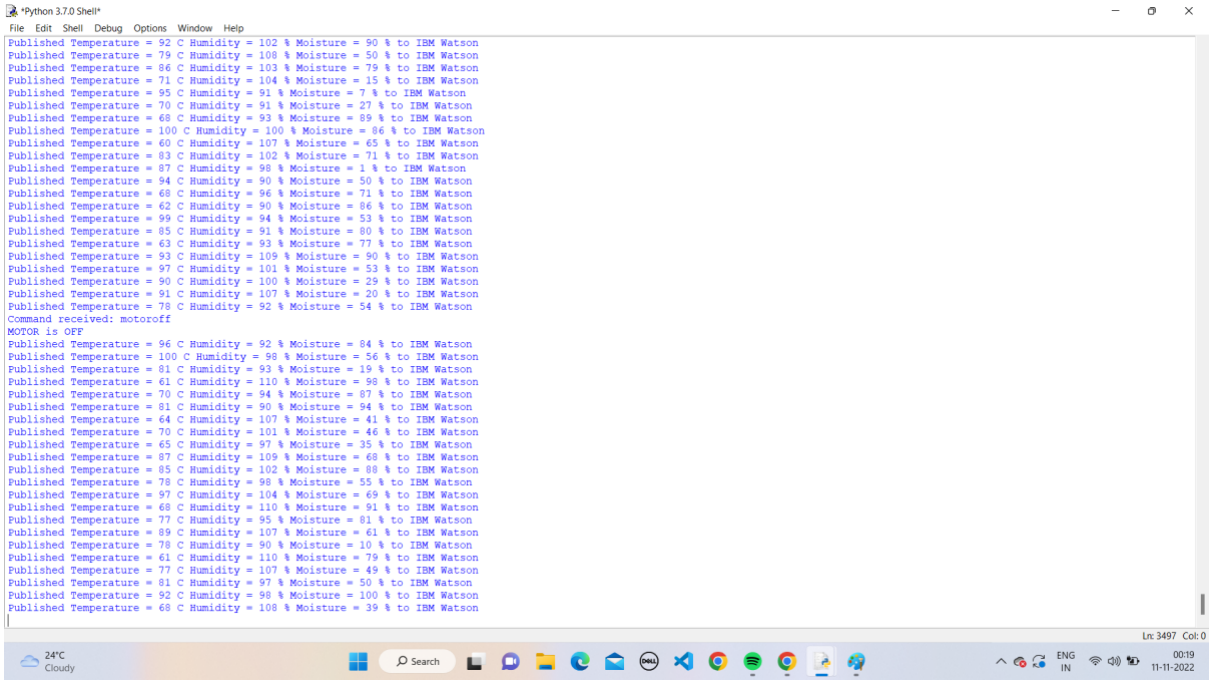


4) Buttons are also present based on the charts and gauges the farmer can control the device using this webpage



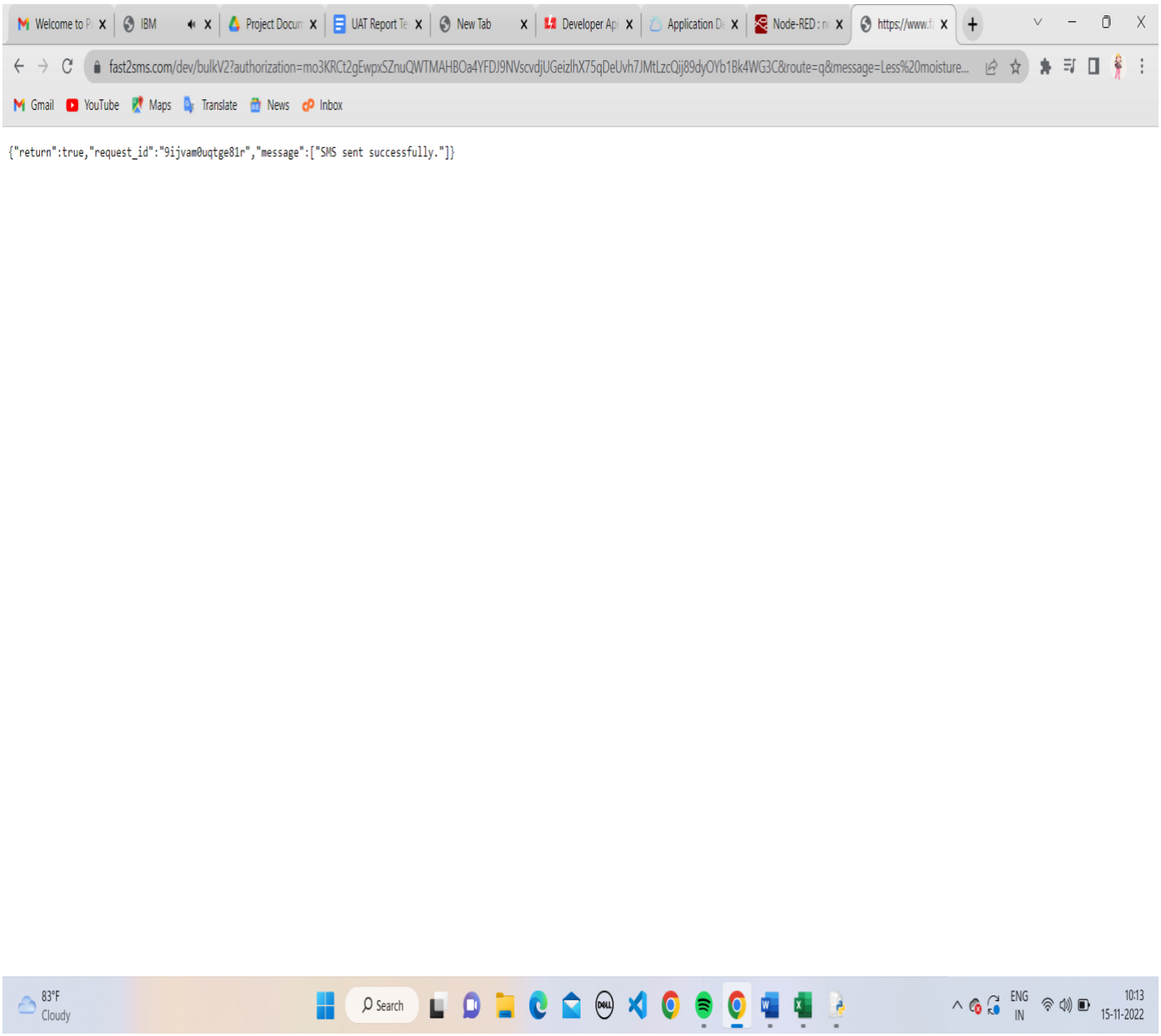
Web Application Link: https://node-red-vaiup-2022-11-08.au-syd.mybluemix.net/ui


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Command received: motoron
MOTOR is ON
Published Temperature = 61 C Humidity = 94 % Moisture = 73 % to IBM Watson
Published Temperature = 66 C Humidity = 98 % Moisture = 73 % to IBM Watson
Published Temperature = 97 C Humidity = 91 % Moisture = 98 % to IBM Watson
Published Temperature = 87 C Humidity = 105 % Moisture = 35 % to IBM Watson
Published Temperature = 72 C Humidity = 91 % Moisture = 58 % to IBM Watson
Published Temperature = 84 C Humidity = 104 % Moisture = 54 % to IBM Watson
Published Temperature = 88 C Humidity = 110 % Moisture = 22 % to IBM Watson
Published Temperature = 79 C Humidity = 96 % Moisture = 61 % to IBM Watson
Published Temperature = 80 C Humidity = 99 % Moisture = 61 % to IBM Watson
Published Temperature = 85 C Humidity = 107 % Moisture = 26 % to IBM Watson
Published Temperature = 80 C Humidity = 97 % Moisture = 63 % to IBM Watson
Published Temperature = 91 C Humidity = 106 % Moisture = 59 % to IBM Watson
Published Temperature = 80 C Humidity = 97 % Moisture = 46 % to IBM Watson
Published Temperature = 70 C Humidity = 101 % Moisture = 74 % to IBM Watson
Published Temperature = 99 C Humidity = 109 % Moisture = 39 % to IBM Watson
Published Temperature = 76 C Humidity = 100 % Moisture = 9 % to IBM Watson
Published Temperature = 68 C Humidity = 104 % Moisture = 59 % to IBM Watson
Published Temperature = 93 C Humidity = 95 % Moisture = 64 % to IBM Watson
Published Temperature = 71 C Humidity = 97 % Moisture = 33 % to IBM Watson
Published Temperature = 66 C Humidity = 97 % Moisture = 24 % to IBM Watson
Published Temperature = 61 C Humidity = 110 % Moisture = 22 % to IBM Watson
Published Temperature = 94 C Humidity = 98 % Moisture = 14 % to IBM Watson
Published Temperature = 63 C Humidity = 110 % Moisture = 76 % to IBM Watson
Published Temperature = 73 C Humidity = 110 % Moisture = 37 % to IBM Watson
Published Temperature = 85 C Humidity = 109 % Moisture = 31 % to IBM Watson
Published Temperature = 72 C Humidity = 104 % Moisture = 46 % to IBM Watson
Published Temperature = 97 C Humidity = 96 % Moisture = 33 % to IBM Watson
Published Temperature = 81 C Humidity = 104 % Moisture = 23 % to IBM Watson
Published Temperature = 72 C Humidity = 94 % Moisture = 8 % to IBM Watson
Published Temperature = 82 C Humidity = 107 % Moisture = 98 % to IBM Watson
Published Temperature = 78 C Humidity = 95 % Moisture = 3 % to IBM Watson
Published Temperature = 100 C Humidity = 95 % Moisture = 10 % to IBM Watson
Published Temperature = 74 C Humidity = 92 % Moisture = 87 % to IBM Watson
Published Temperature = 92 C Humidity = 105 % Moisture = 60 % to IBM Watson
Published Temperature = 76 C Humidity = 110 % Moisture = 53 % to IBM Watson
Published Temperature = 99 C Humidity = 97 % Moisture = 35 % to IBM Watson
Published Temperature = 67 C Humidity = 105 % Moisture = 80 % to IBM Watson
Published Temperature = 69 C Humidity = 106 % Moisture = 17 % to IBM Watson
Published Temperature = 66 C Humidity = 92 % Moisture = 98 % to IBM Watson
Published Temperature = 66 C Humidity = 105 % Moisture = 94 % to IBM Watson
Published Temperature = 72 C Humidity = 103 % Moisture = 57 % to IBM Watson
Published Temperature = 66 C Humidity = 93 % Moisture = 53 % to IBM Watson
Published Temperature = 71 C Humidity = 95 % Moisture = 25 % to IBM Watson
Published Temperature = 99 C Humidity = 107 % Moisture = 68 % to IBM Watson
Ln: 3495 Col: 0
24°C Cloudy
Search
ENG IN
00:19 11-11-2022


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Published Temperature = 92 C Humidity = 102 % Moisture = 90 % to IBM Watson
Published Temperature = 79 C Humidity = 108 % Moisture = 50 % to IBM Watson
Published Temperature = 86 C Humidity = 103 % Moisture = 79 % to IBM Watson
Published Temperature = 71 C Humidity = 104 % Moisture = 15 % to IBM Watson
Published Temperature = 95 C Humidity = 91 % Moisture = 7 % to IBM Watson
Published Temperature = 70 C Humidity = 91 % Moisture = 27 % to IBM Watson
Published Temperature = 68 C Humidity = 93 % Moisture = 89 % to IBM Watson
Published Temperature = 100 C Humidity = 100 % Moisture = 86 % to IBM Watson
Published Temperature = 60 C Humidity = 107 % Moisture = 65 % to IBM Watson
Published Temperature = 83 C Humidity = 102 % Moisture = 71 % to IBM Watson
Published Temperature = 87 C Humidity = 98 % Moisture = 1 % to IBM Watson
Published Temperature = 94 C Humidity = 90 % Moisture = 50 % to IBM Watson
Published Temperature = 68 C Humidity = 96 % Moisture = 71 % to IBM Watson
Published Temperature = 62 C Humidity = 90 % Moisture = 86 % to IBM Watson
Published Temperature = 99 C Humidity = 94 % Moisture = 53 % to IBM Watson
Published Temperature = 85 C Humidity = 91 % Moisture = 80 % to IBM Watson
Published Temperature = 63 C Humidity = 93 % Moisture = 77 % to IBM Watson
Published Temperature = 93 C Humidity = 109 % Moisture = 90 % to IBM Watson
Published Temperature = 97 C Humidity = 101 % Moisture = 53 % to IBM Watson
Published Temperature = 90 C Humidity = 100 % Moisture = 29 % to IBM Watson
Published Temperature = 91 C Humidity = 107 % Moisture = 20 % to IBM Watson
Published Temperature = 78 C Humidity = 92 % Moisture = 54 % to IBM Watson
Command received: motoroff
MOTOR is OFF
Published Temperature = 96 C Humidity = 92 % Moisture = 84 % to IBM Watson
Published Temperature = 100 C Humidity = 98 % Moisture = 56 % to IBM Watson
Published Temperature = 81 C Humidity = 93 % Moisture = 19 % to IBM Watson
Published Temperature = 61 C Humidity = 110 % Moisture = 98 % to IBM Watson
Published Temperature = 70 C Humidity = 94 % Moisture = 87 % to IBM Watson
Published Temperature = 81 C Humidity = 90 % Moisture = 94 % to IBM Watson
Published Temperature = 64 C Humidity = 107 % Moisture = 41 % to IBM Watson
Published Temperature = 70 C Humidity = 101 % Moisture = 46 % to IBM Watson
Published Temperature = 65 C Humidity = 97 % Moisture = 35 % to IBM Watson
Published Temperature = 87 C Humidity = 109 % Moisture = 68 % to IBM Watson
Published Temperature = 85 C Humidity = 102 % Moisture = 88 % to IBM Watson
Published Temperature = 78 C Humidity = 98 % Moisture = 55 % to IBM Watson
Published Temperature = 97 C Humidity = 104 % Moisture = 69 % to IBM Watson
Published Temperature = 68 C Humidity = 110 % Moisture = 91 % to IBM Watson
Published Temperature = 77 C Humidity = 95 % Moisture = 81 % to IBM Watson
Published Temperature = 89 C Humidity = 107 % Moisture = 61 % to IBM Watson
Published Temperature = 78 C Humidity = 90 % Moisture = 10 % to IBM Watson
Published Temperature = 61 C Humidity = 110 % Moisture = 79 % to IBM Watson
Published Temperature = 77 C Humidity = 107 % Moisture = 49 % to IBM Watson
Published Temperature = 81 C Humidity = 97 % Moisture = 50 % to IBM Watson
Published Temperature = 92 C Humidity = 98 % Moisture = 100 % to IBM Watson
Published Temperature = 68 C Humidity = 108 % Moisture = 39 % to IBM Watson
Ln: 3497 Col: 0
24°C Cloudy
Search
ENG IN
00:19 11-11-2022

SMS APP

SMS will be generated whenever the moisture is less than 20 with the help of Fast2SMS app.



The page shows the received SMS.