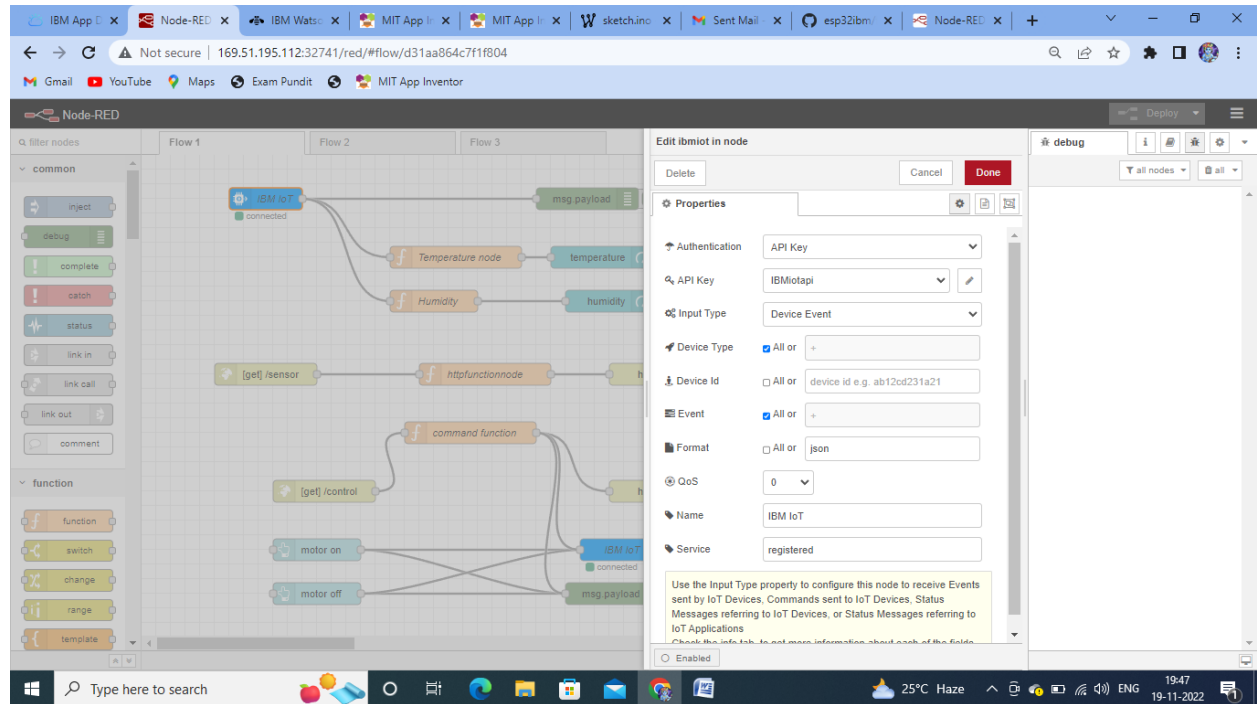


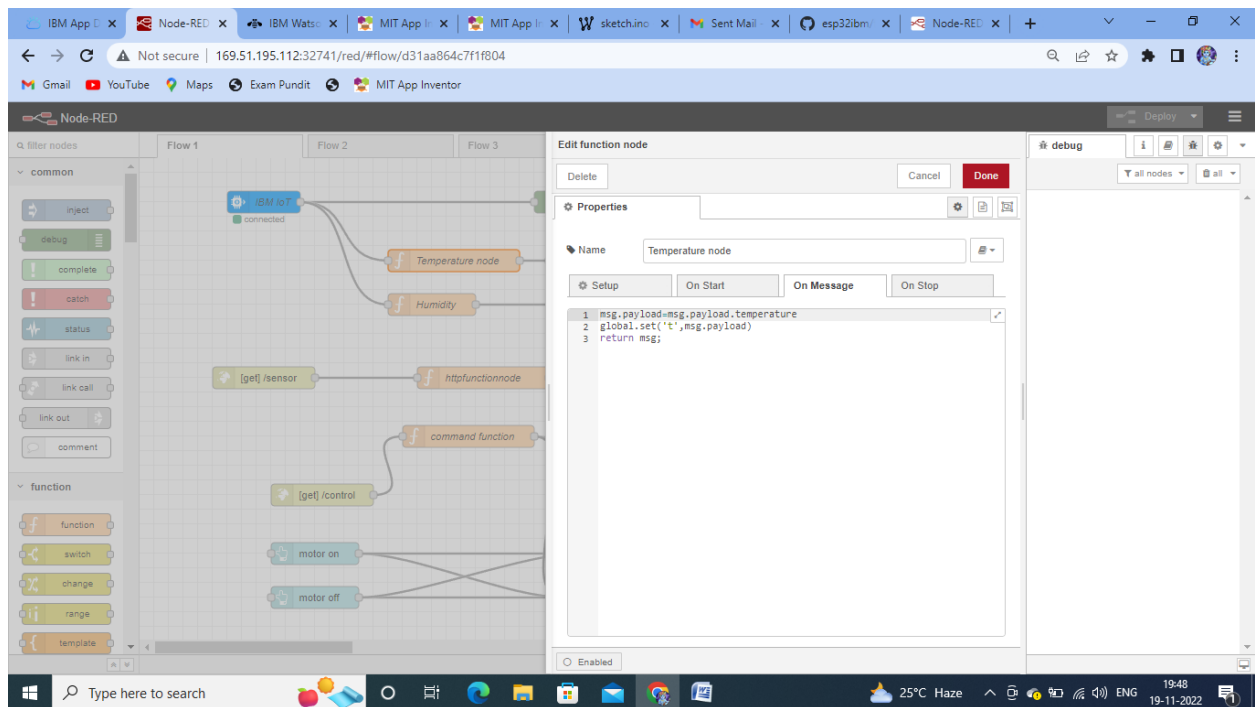
## Build A Web Application Using Node-Red

Team ID	PNT2022TMID48383
Project Name	Smart Farmer-IOT Enabled Smart Farming Application

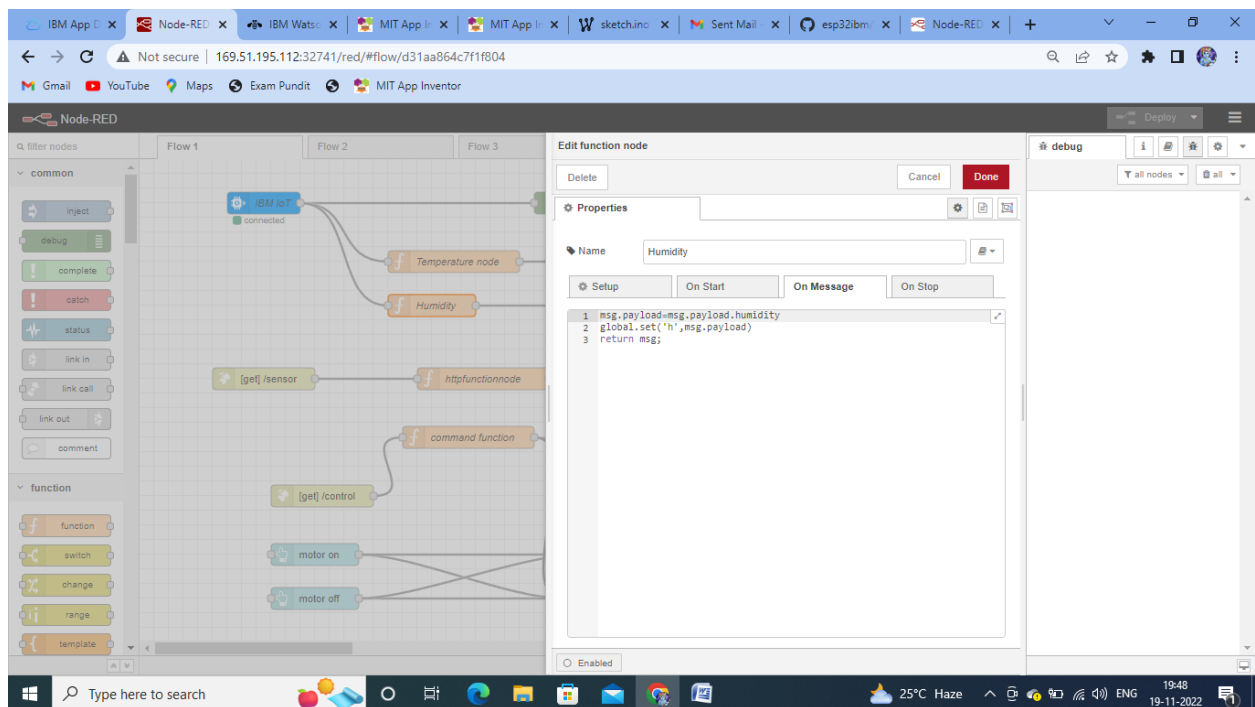
First open Node RED workspace and drag IBM iot input into the workspace. It will as Ask API key, device id ,device type etc.



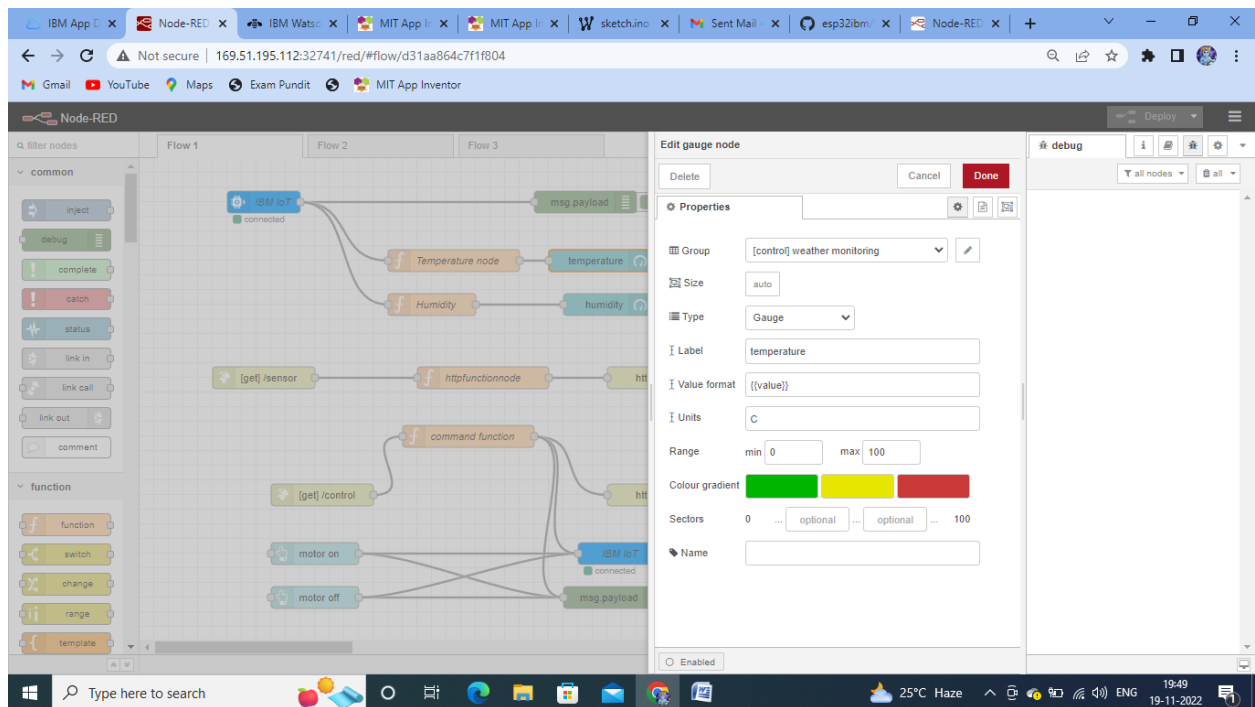
And take a function node and rename it has a temperature and message in the editor.



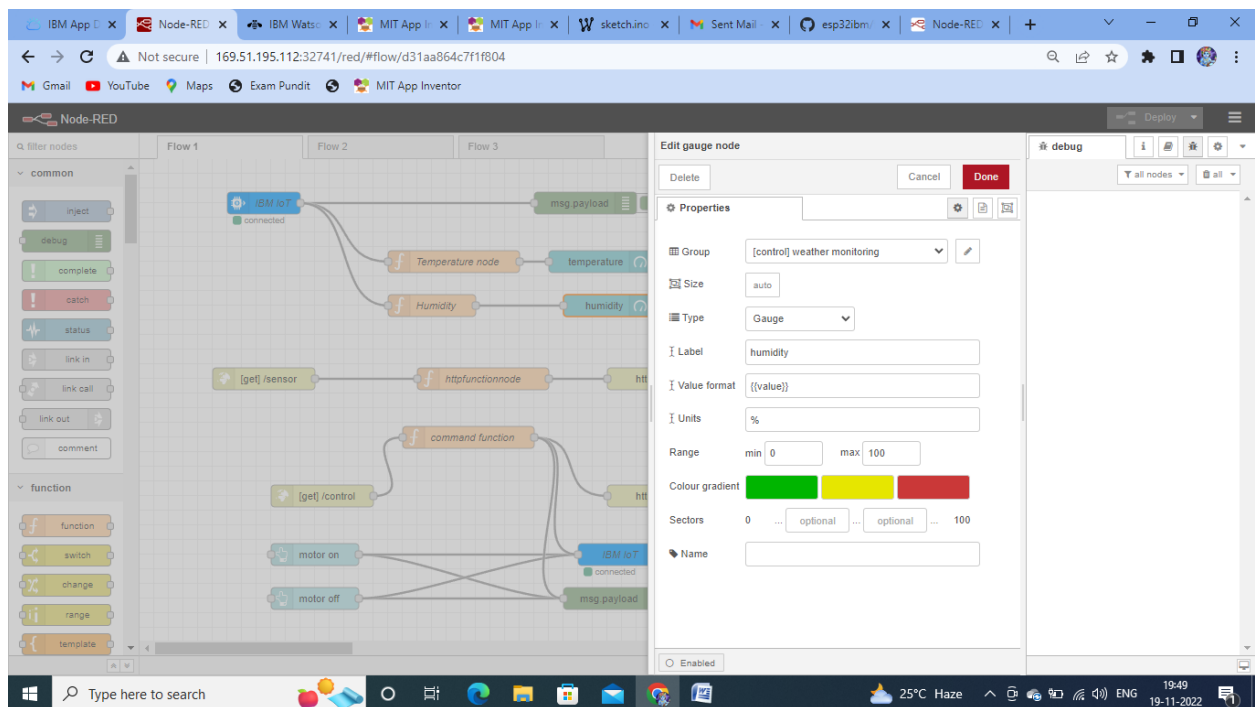
Now take a function node for humidity and type message in the editor.



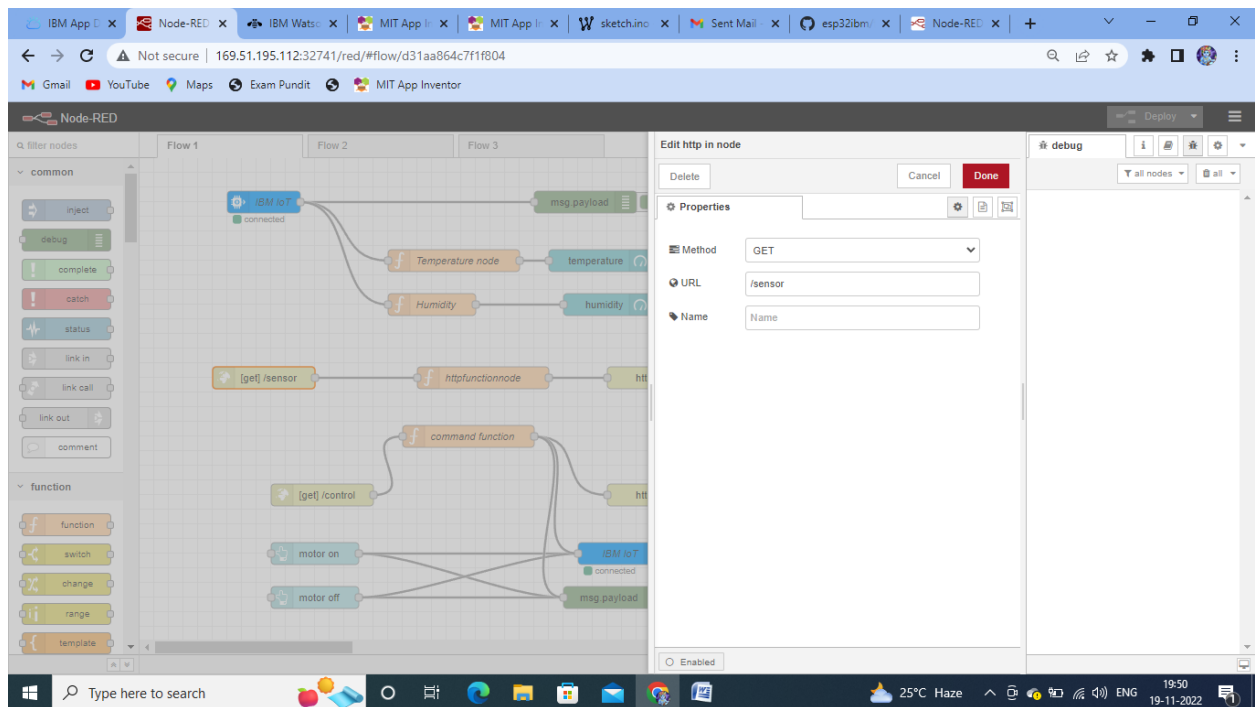
Now take temperature gauge meter in the dashboard and give name as temperature and range 0 to 100.



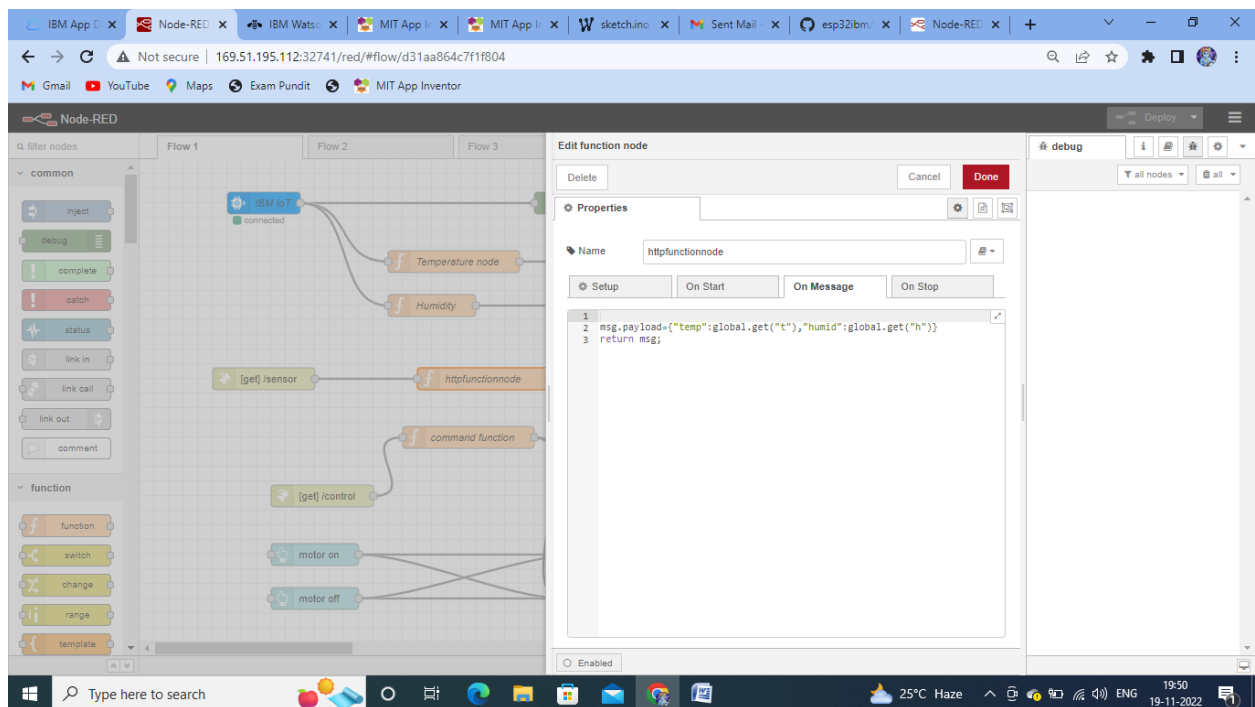
Similarly for humidity u take another gauge meter and range 0 to 100.



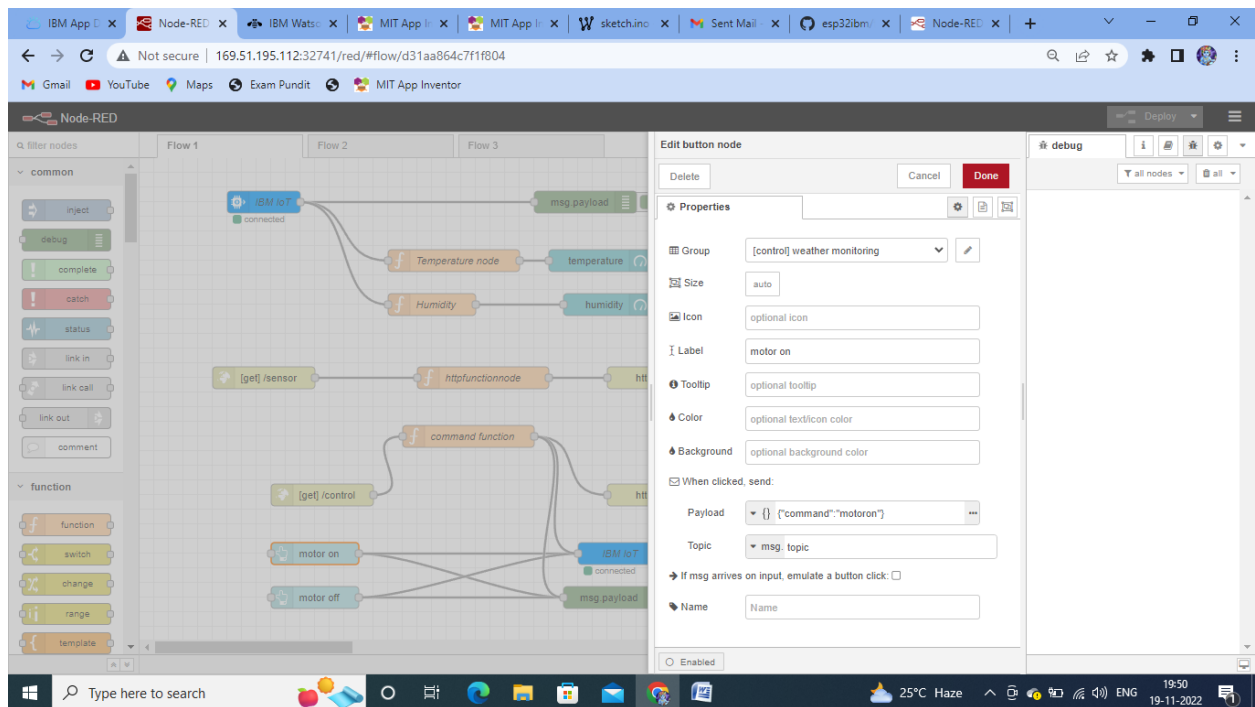
Now change the http:// in into the get /sensor.



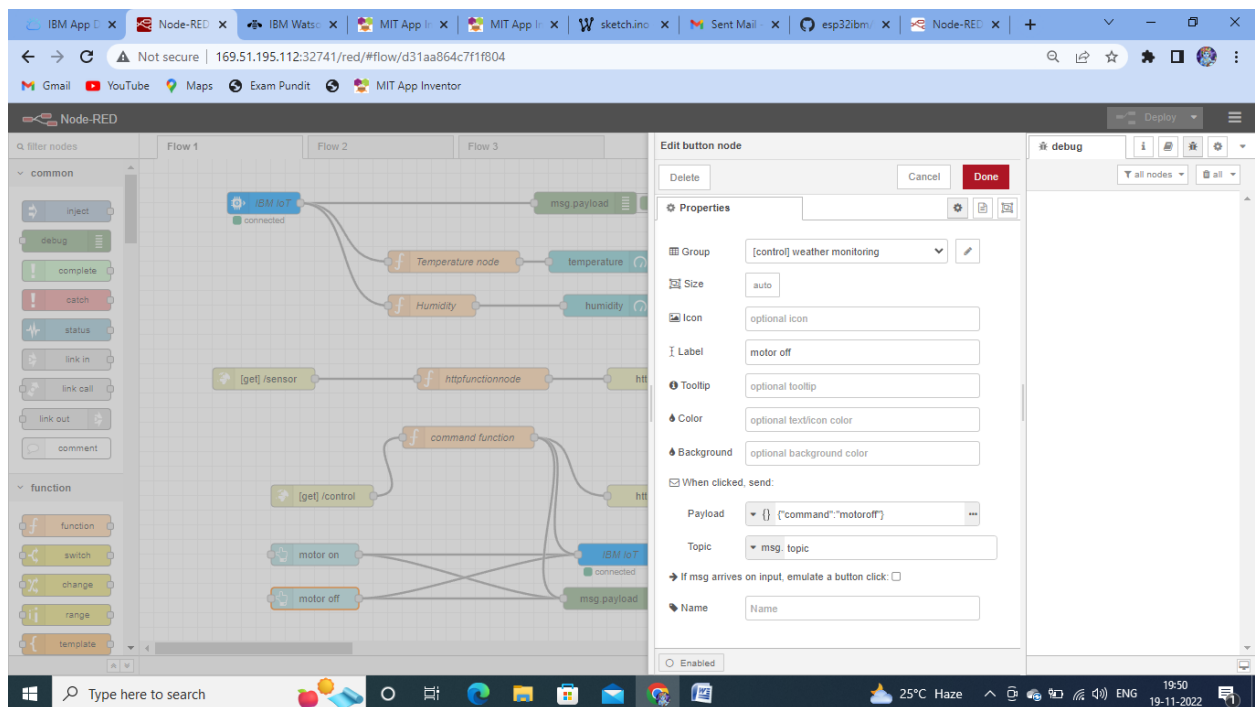
Now take http function and type temperature , humidity ,and soil etc.



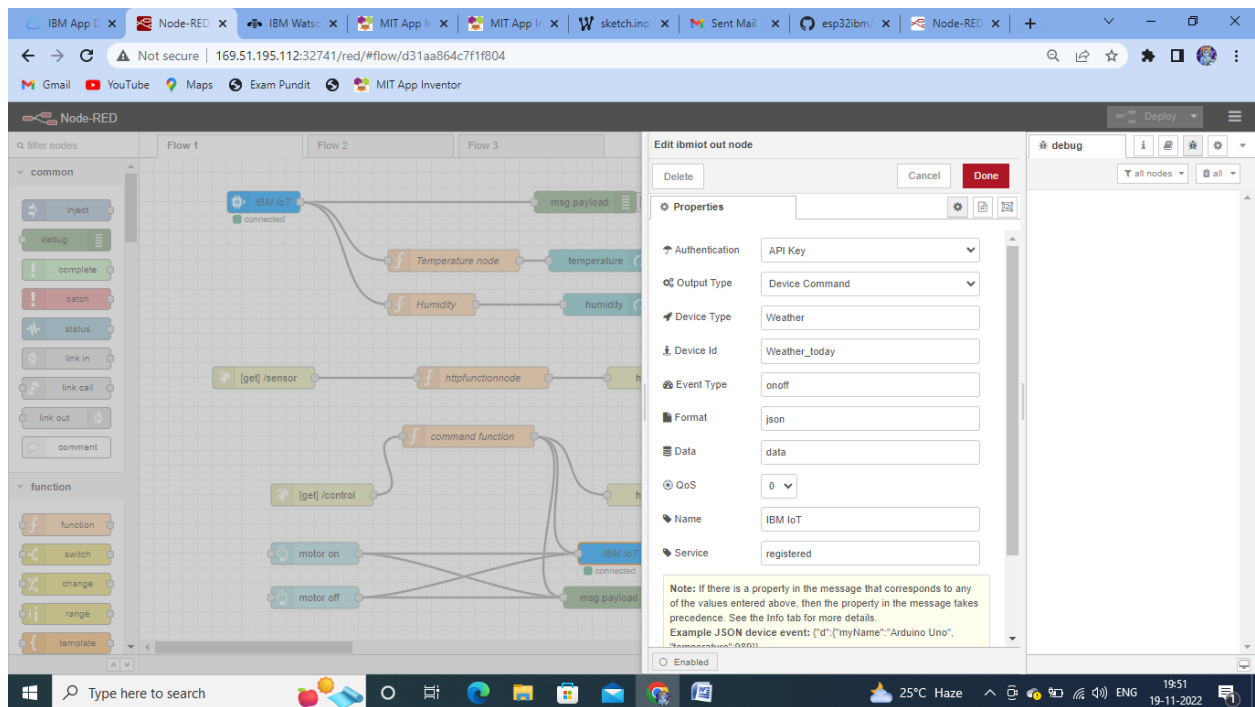
Now take Motor on and give command {“command”:”motoron”}



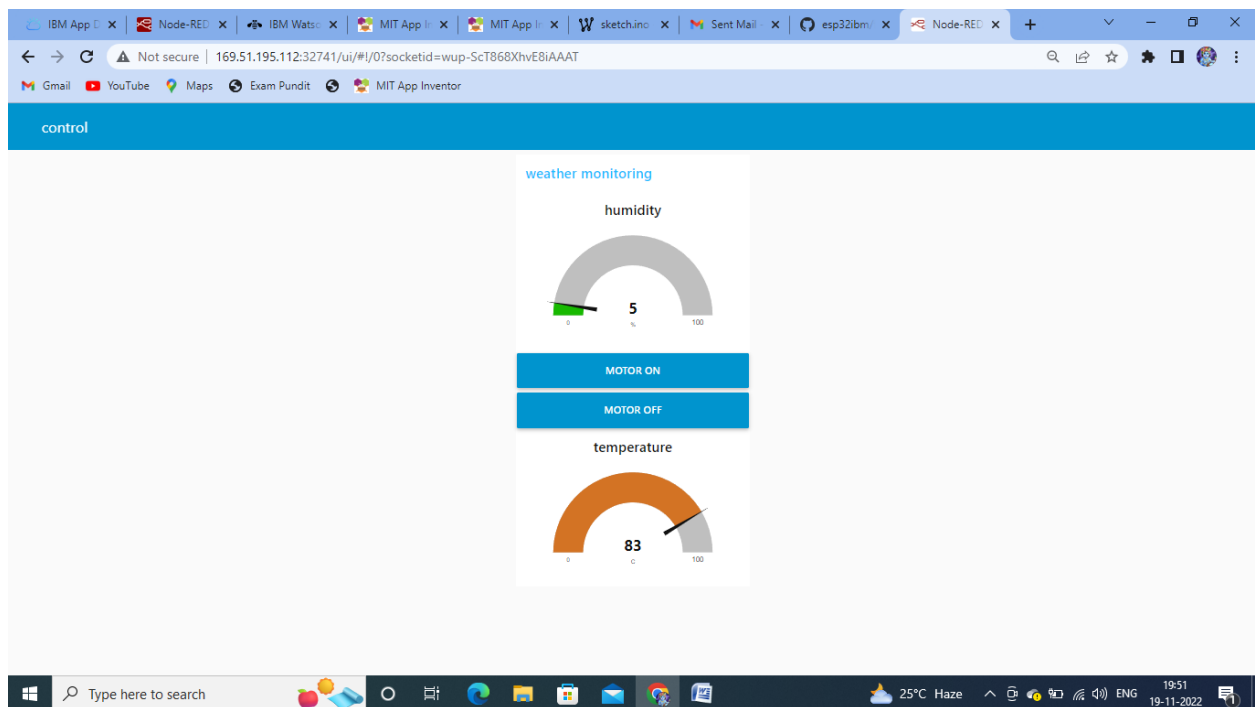
Now take Motor off and give command `{ "command": "motoroff" }`



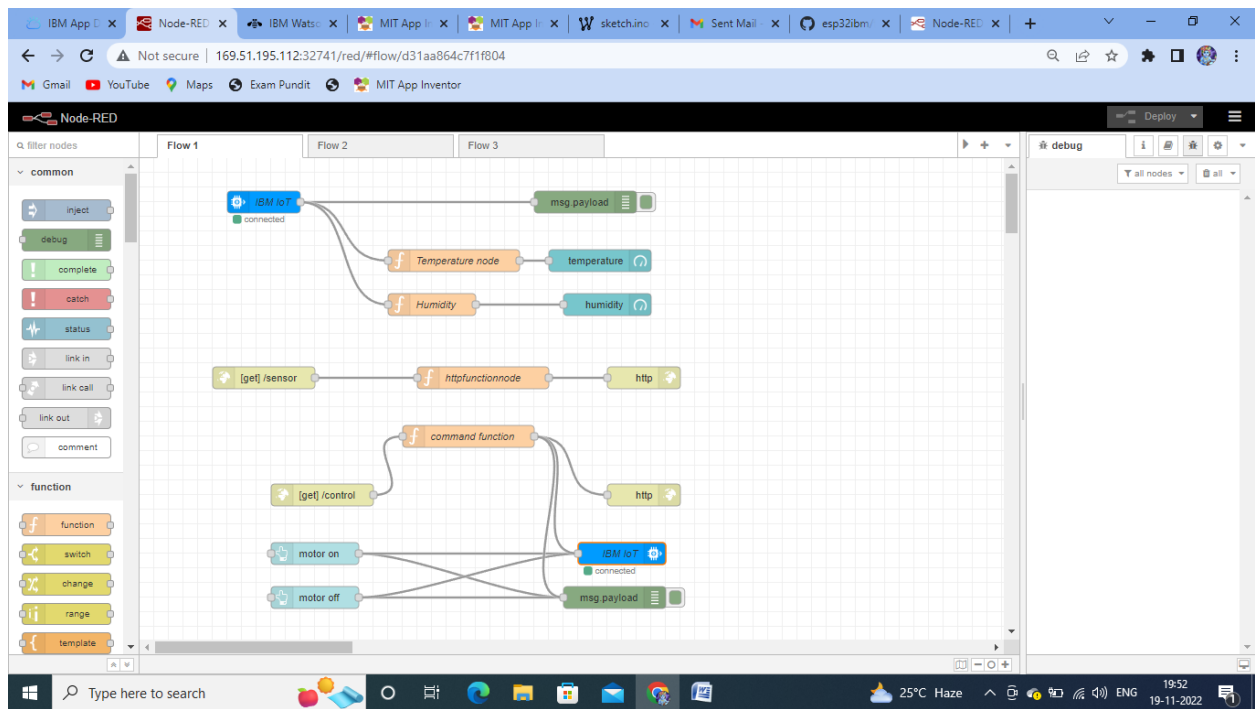
Now take the IBM iot out and connect the motor on and motor off.



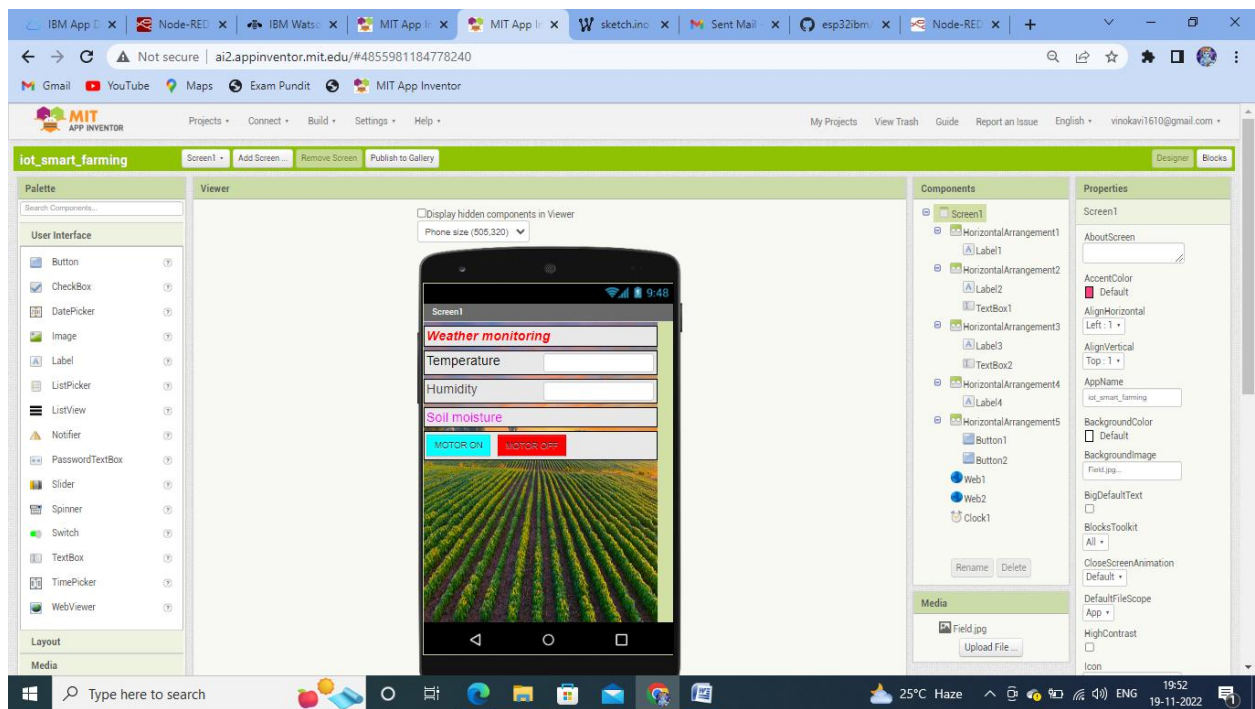
These is the node-red dashboard to see reading of temperature and humidity and soil moisture.



Finally we can connected as shown below:



Now developing mobile application using mit app inventor.



These are the blocks of the mit app inventor.

IBM App x Node-RED x IBM Watson x MIT App Inventor x MIT App Inventor x sketchino x Sent Mail x esp32bm x Node-RED x

Not secure | ai2.appinventor.mit.edu/#4855981184778240

Gmail YouTube Maps Exam Pundit MIT App Inventor

MIT APP INVENTOR Projects Connect Build Settings Help My Projects View Trash Guide Report an Issue English vinokan1610@gmail.com

iot\_smart\_farming Screen1 Add Screen... Remove Screen Publish to Gallery Designer Blocks

Blocks

- Built-in
  - Control
  - Logic
  - Math
  - Text
  - Lists
  - Dictionaries
  - Colors
  - Variables
  - Procedures
- Screen1
  - HorizontalArrangements
    - Label1
  - HorizontalArrangements
    - Label2
  - HorizontalArrangements
    - TextBox1
  - HorizontalArrangements
    - TextBox2

Media

- Field.jpg
- Upload File...

Viewer

when Clock1.Timer

- do set Web1.Url to http://169.51.195.112:32741/sensor
- call Web1.Get

when Web1 GotText

url	responseCode	responseType	responseContent
do set TextBox1.Text to	look up in pairs key	temp	
	pairs	call Web1.JsonTextDecode	jsonText get responseContent
	notFound	not found	
do set TextBox2.Text to	look up in pairs key	humid	
	pairs	call Web1.JsonTextDecode	jsonText get responseContent
	notFound	not found	

when Button1.Click

- do set Web2.Url to http://169.51.195.112:32741/control?command=moto
- call Web2.Get

when Button2.Click

- do set Web2.Url to http://169.51.195.112:32741/control?command=moto
- Show Warning Web2.Get

25°C Haze 19:33 19-11-2022