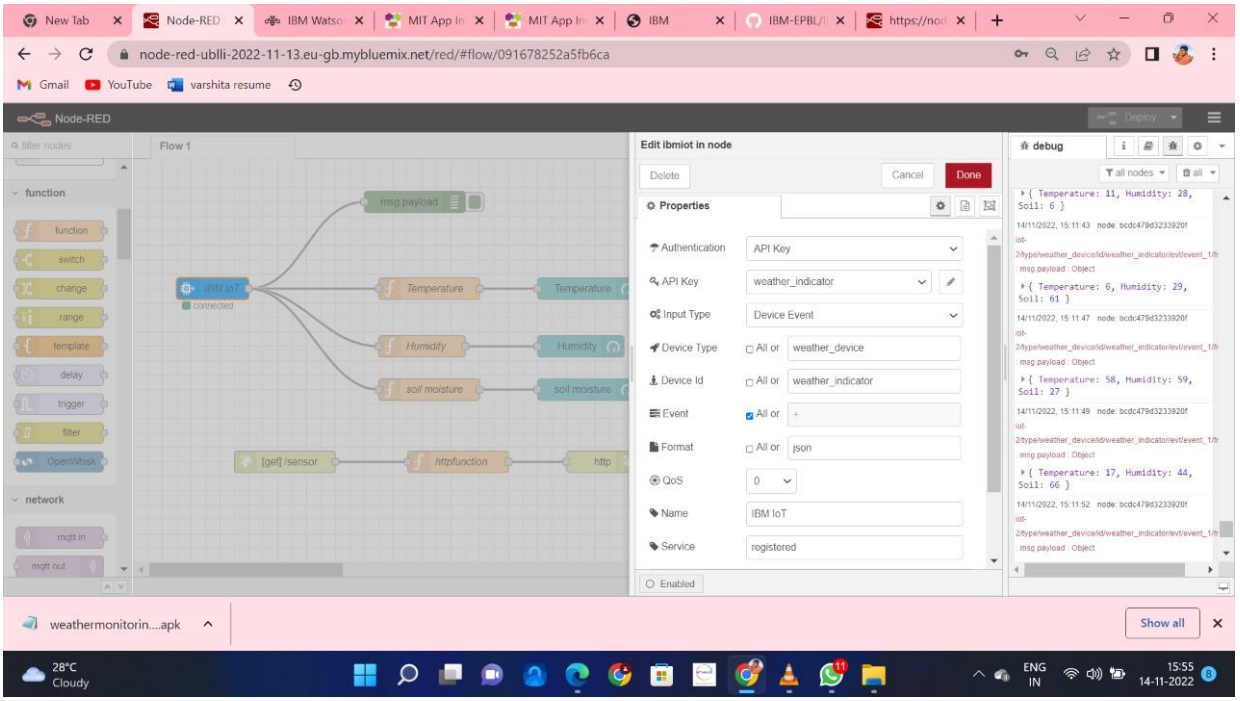
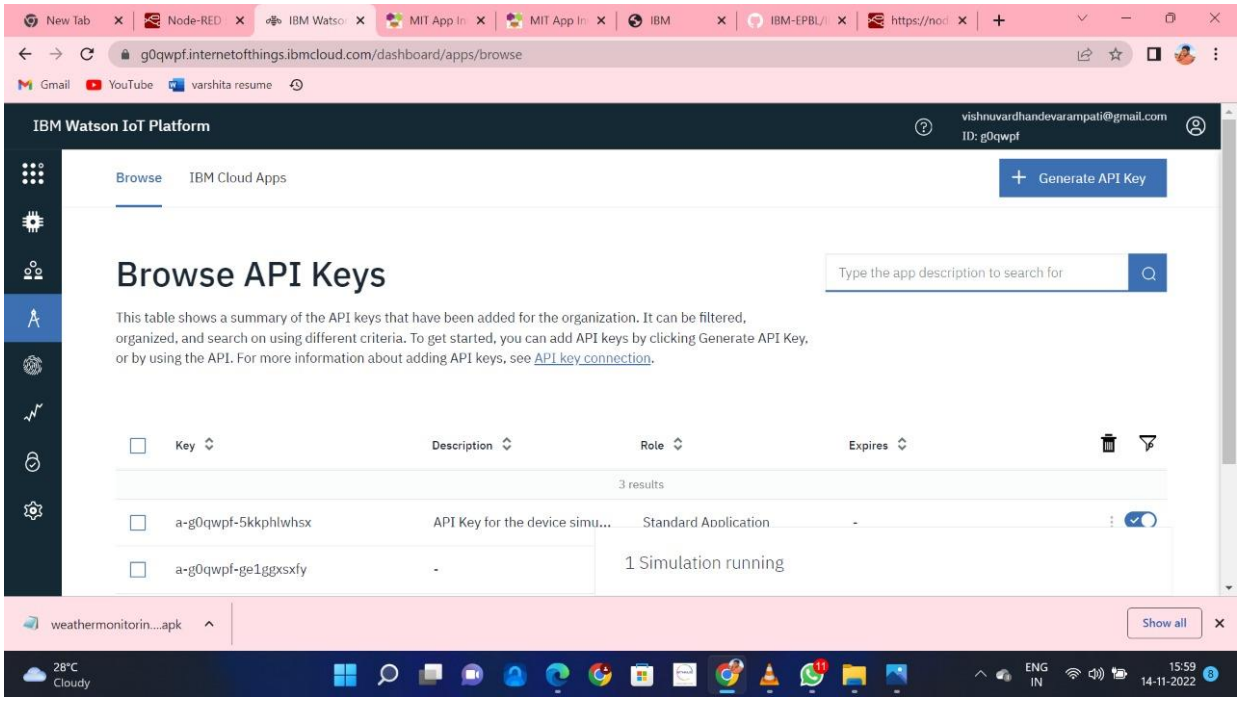
Build A Web Application Using Node-Red

Team ID	PNT2022TMID08457
Project Name	Smart Farmer-IOT Enabled Smart Farming Application

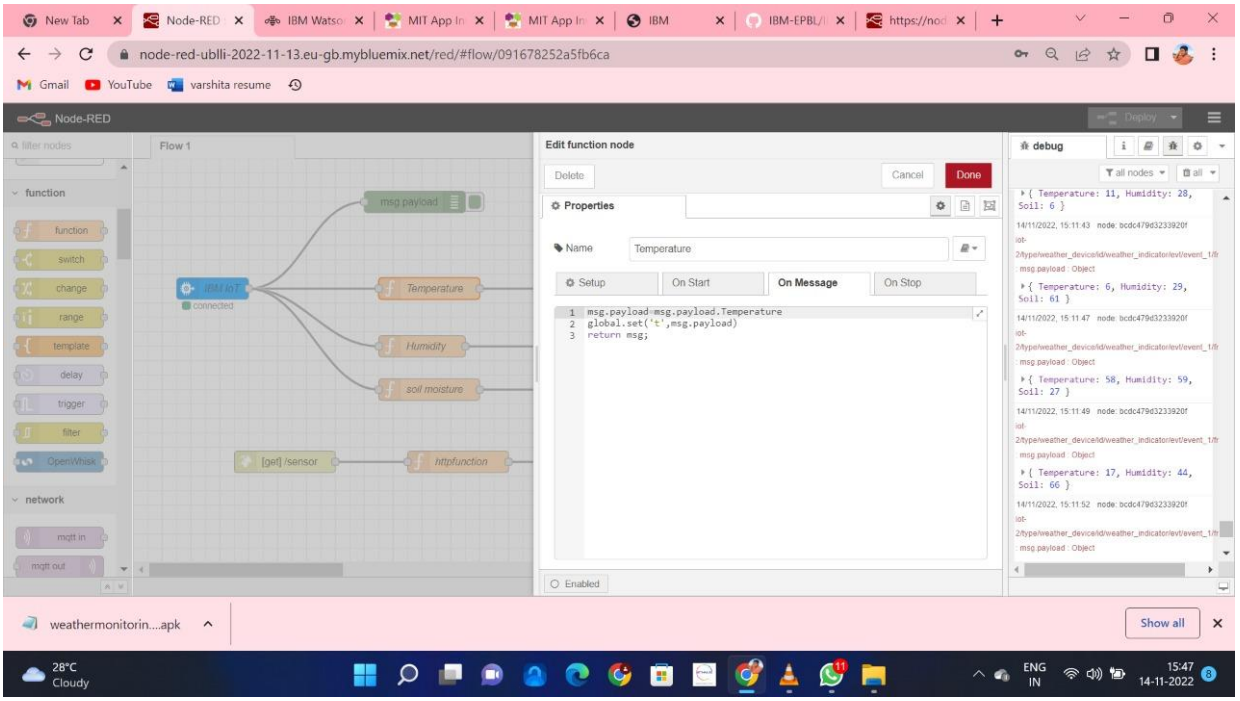
First open Node RED workspace and drag IBM iot input into the workspace. It will as Ask API key, device id, device type etc.



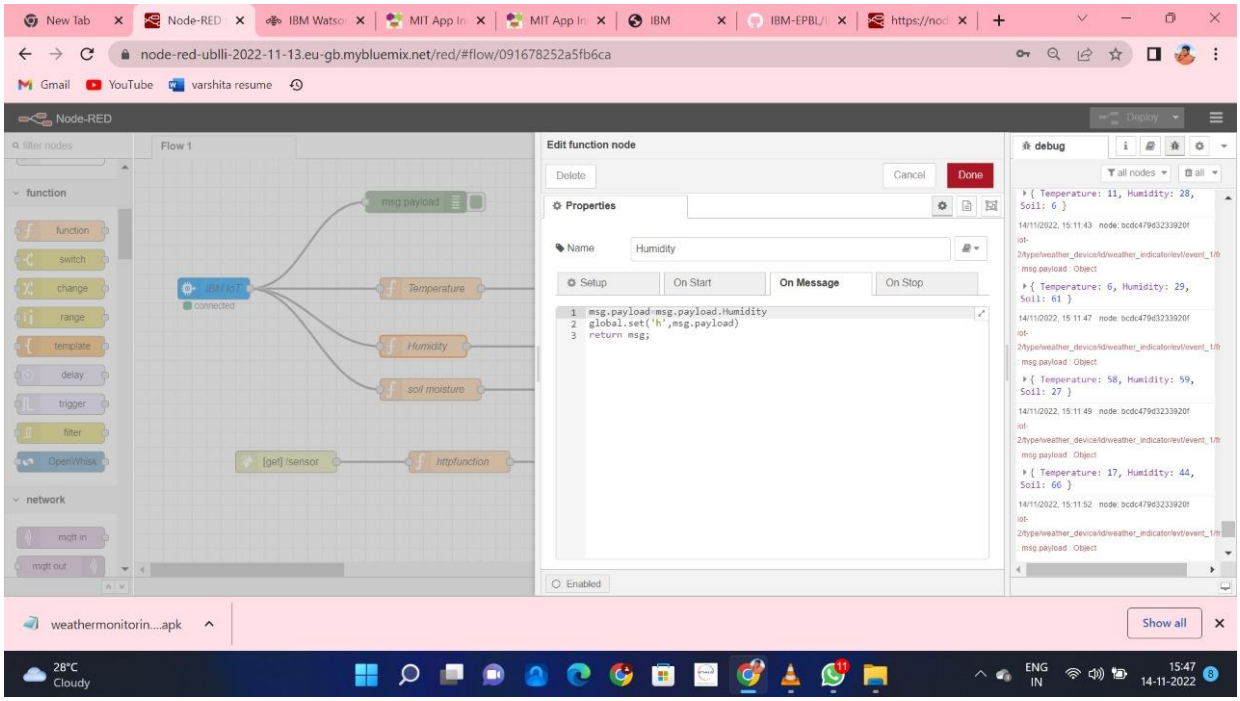
For Generating API keys open IBM Watson and click Apps and Generate API key it shown below like these:



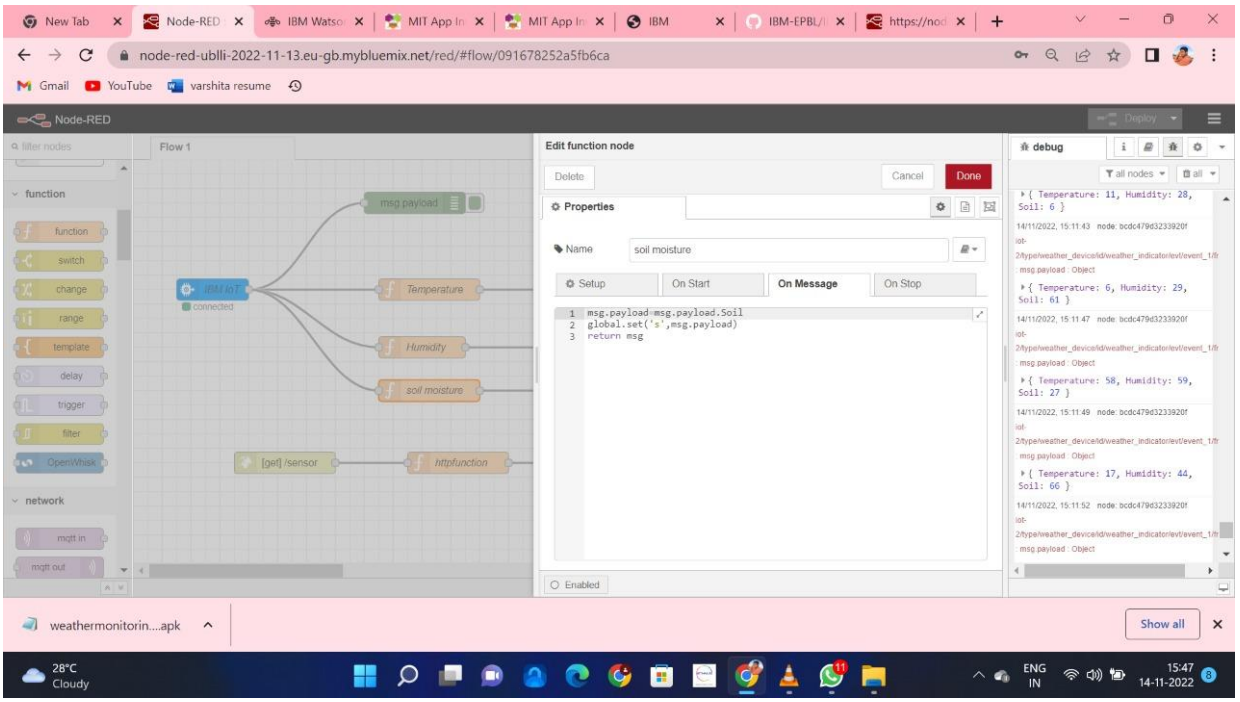
And take a function node and rename it has a temperature and message in the editor.



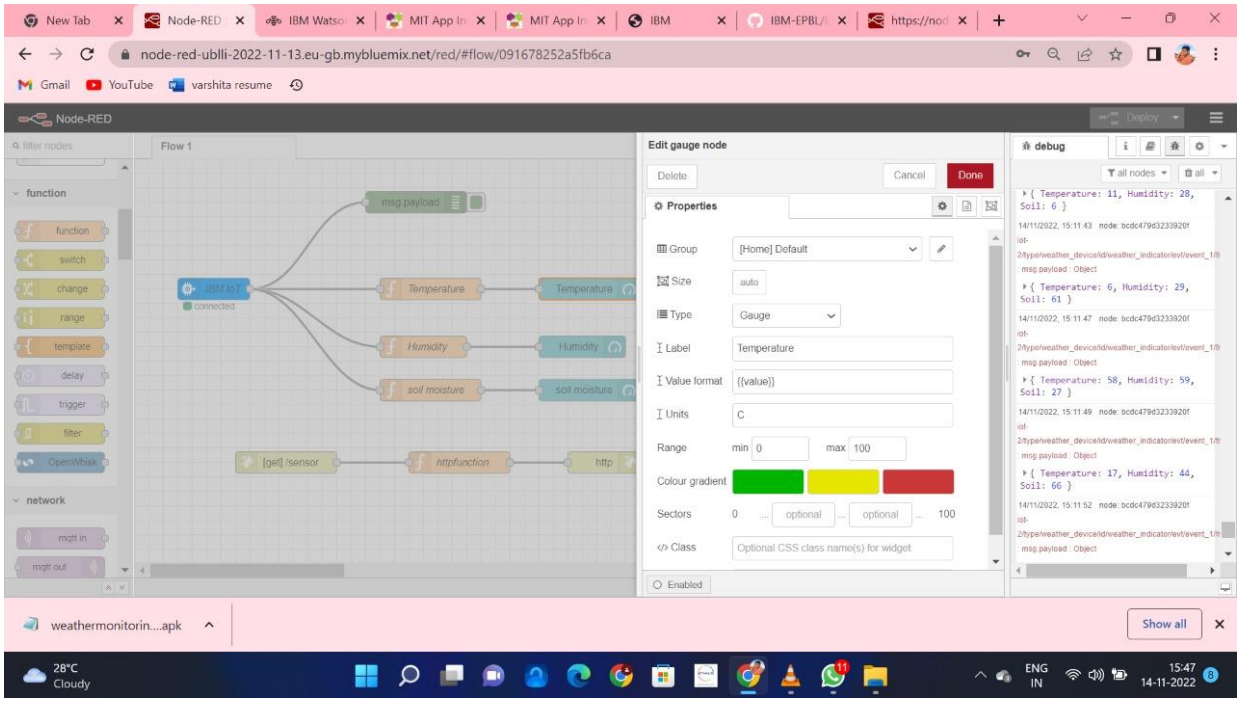
Now take a function node for humidity and type message in the editor.



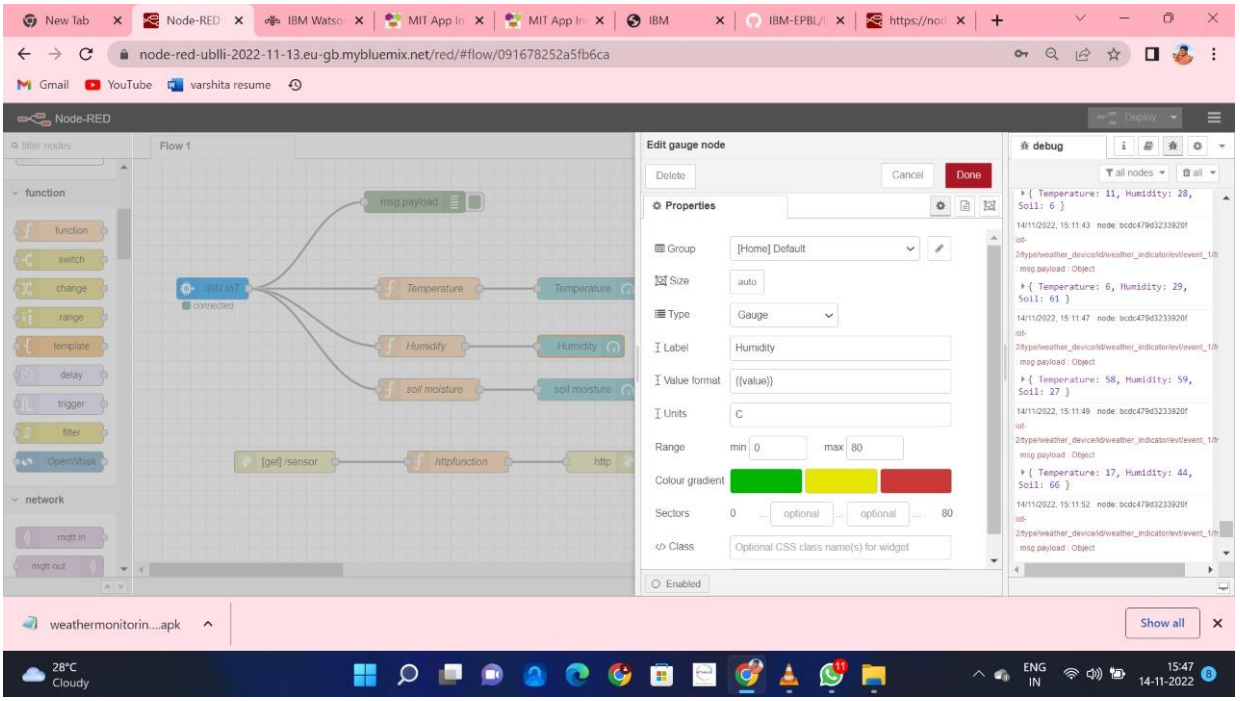
And take a function node and rename it has a Soil moisture and message in the editor



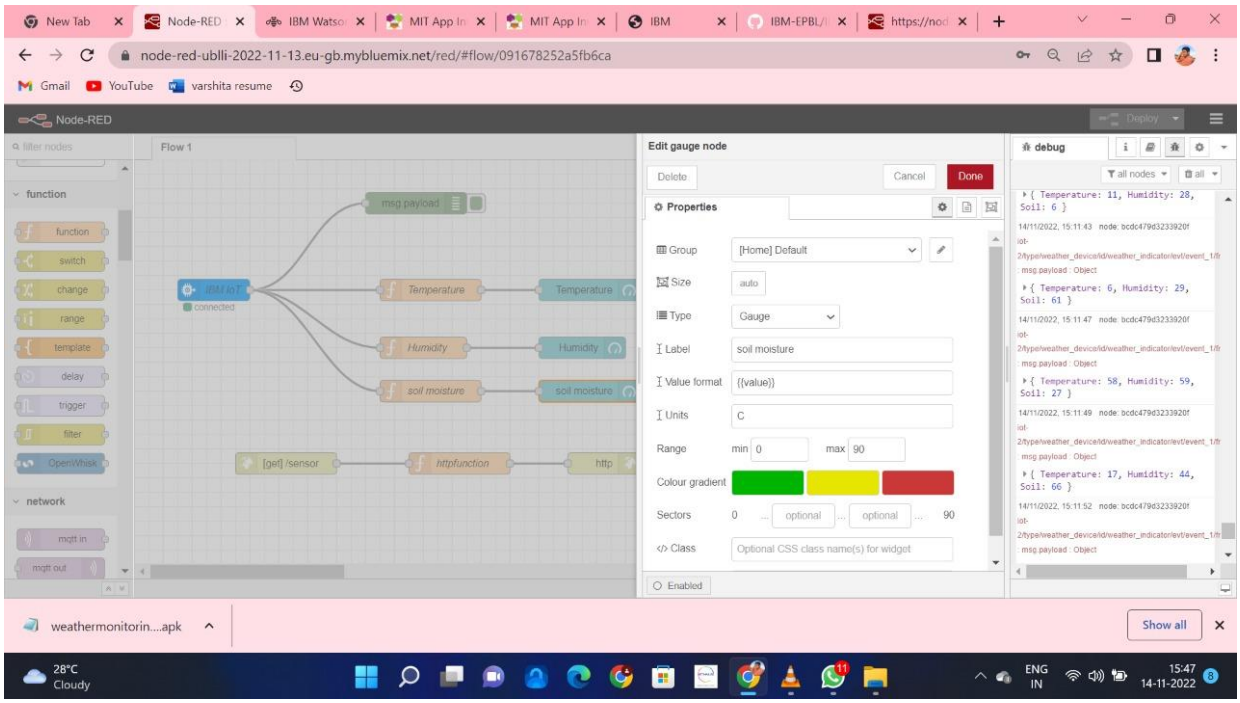
Now take temperature gauge meter in the dashboard and give name as temperature and range 0 to 100.



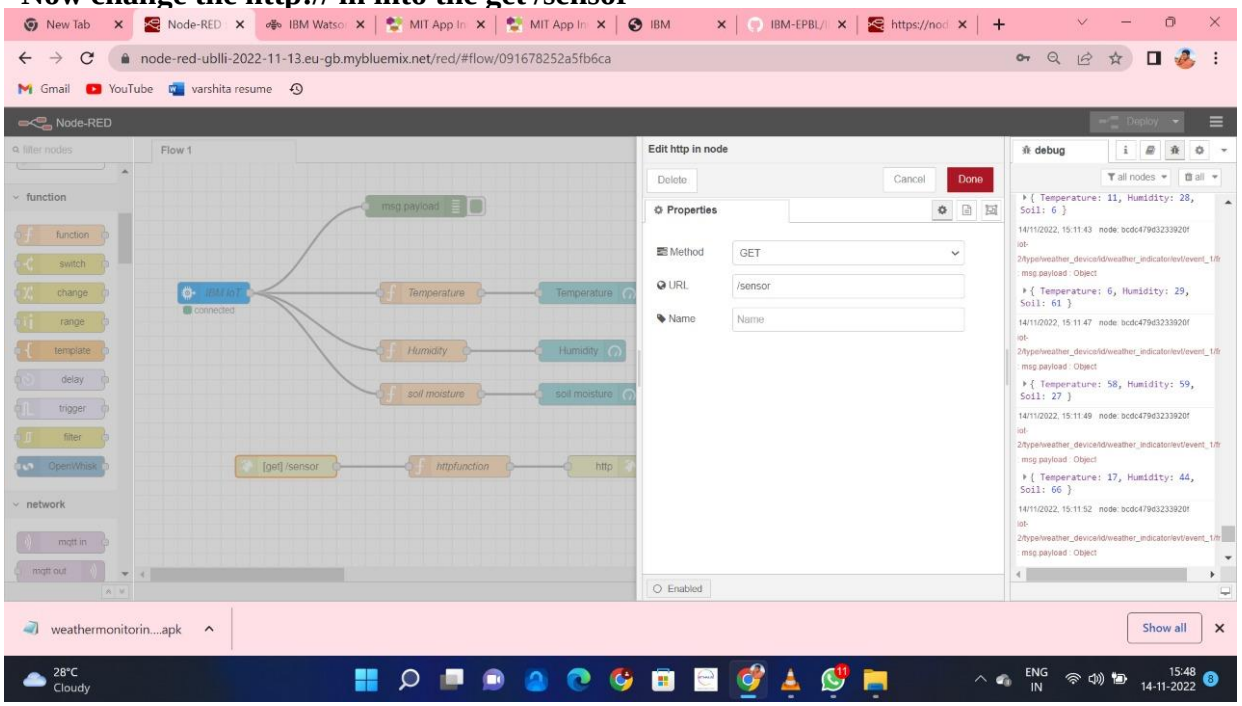
Similarly for humidity u take another gauge meter and range 0 to 100



For soil moisture 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.

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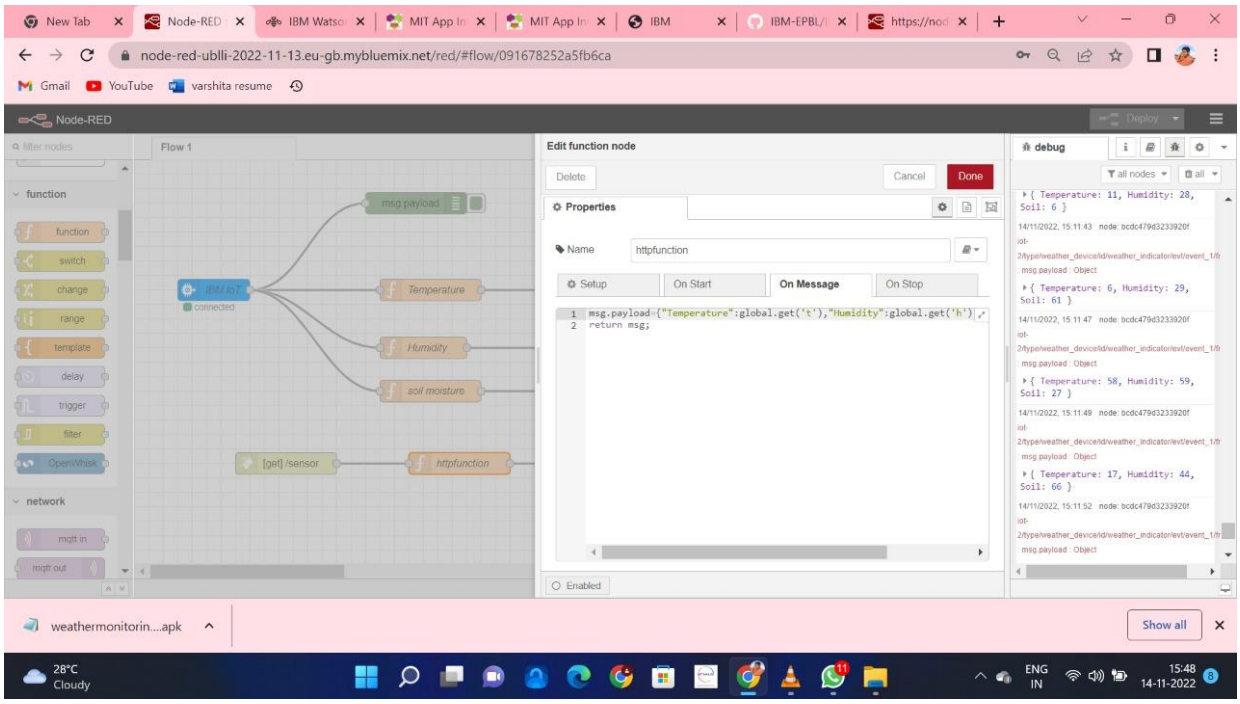
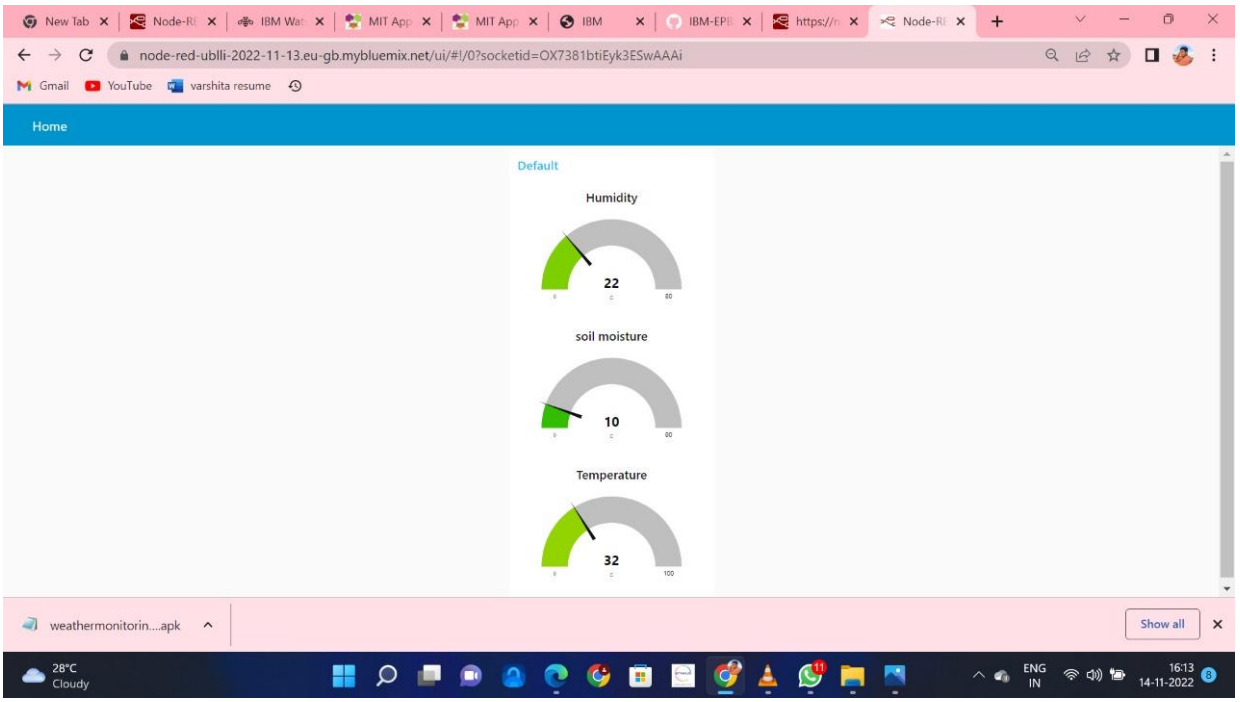
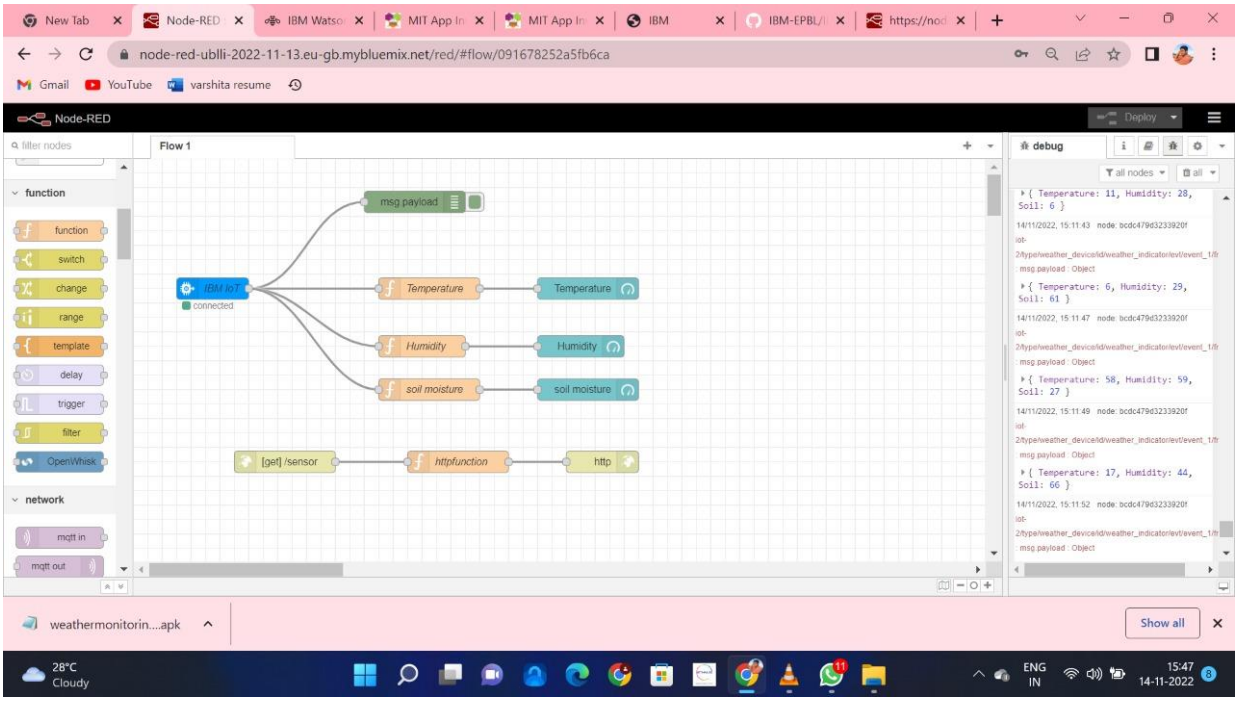


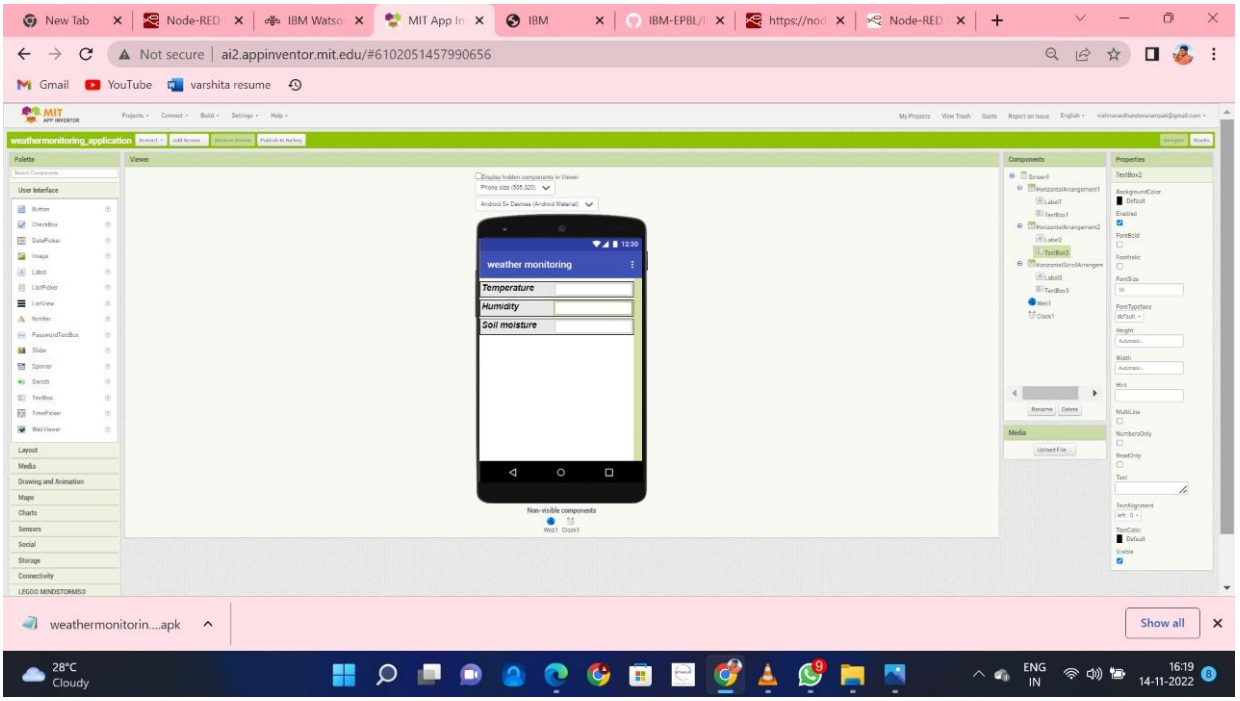
There is an Node-Red dashboard to see the readings of temperature, humidity and soil moisture.



Finally, we can connect as shown in figure below

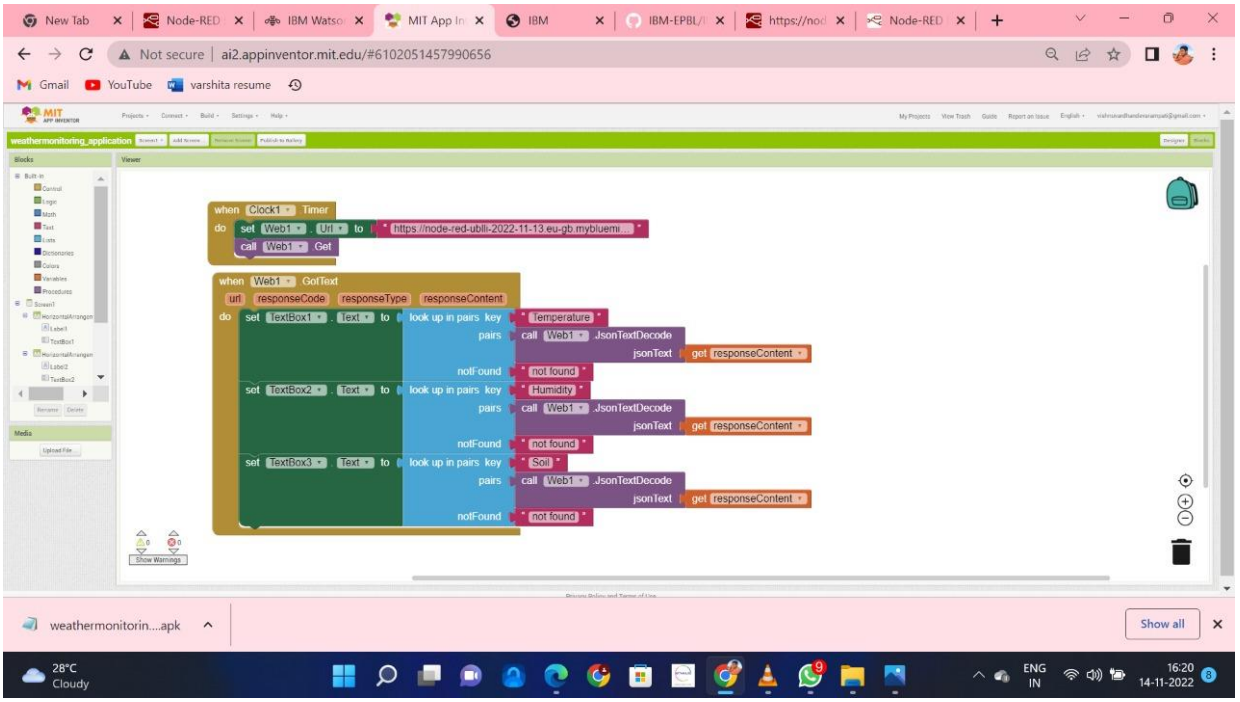


Now developing a mobile application using MIT app inventor can be shown below



As we can observe, we have given three slots namely, temperature, humidity and soil moisture and user can get the values of them in respective allocated spaces .

The blocks of the MIT app inventor is shown below



Now we can observe that Node-Red is connected successfully to the mobile appilication