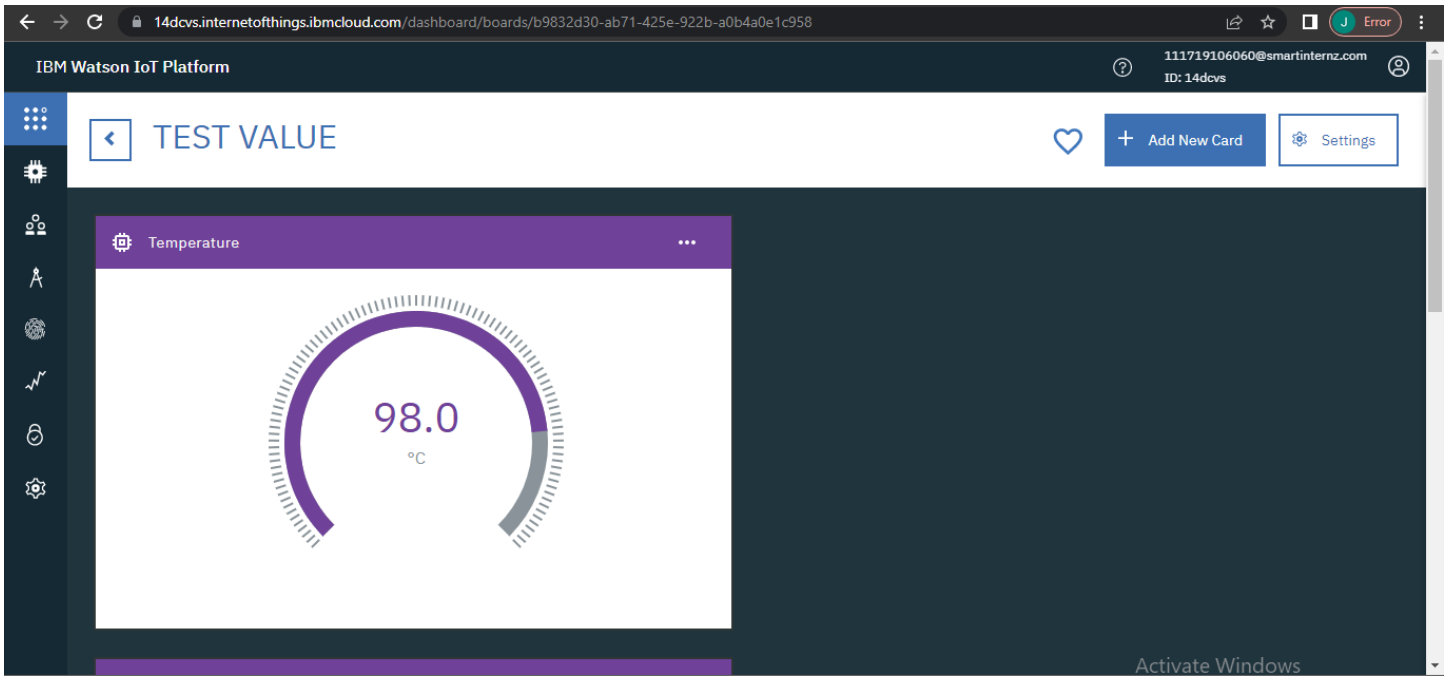
Sprint Delivery – 2

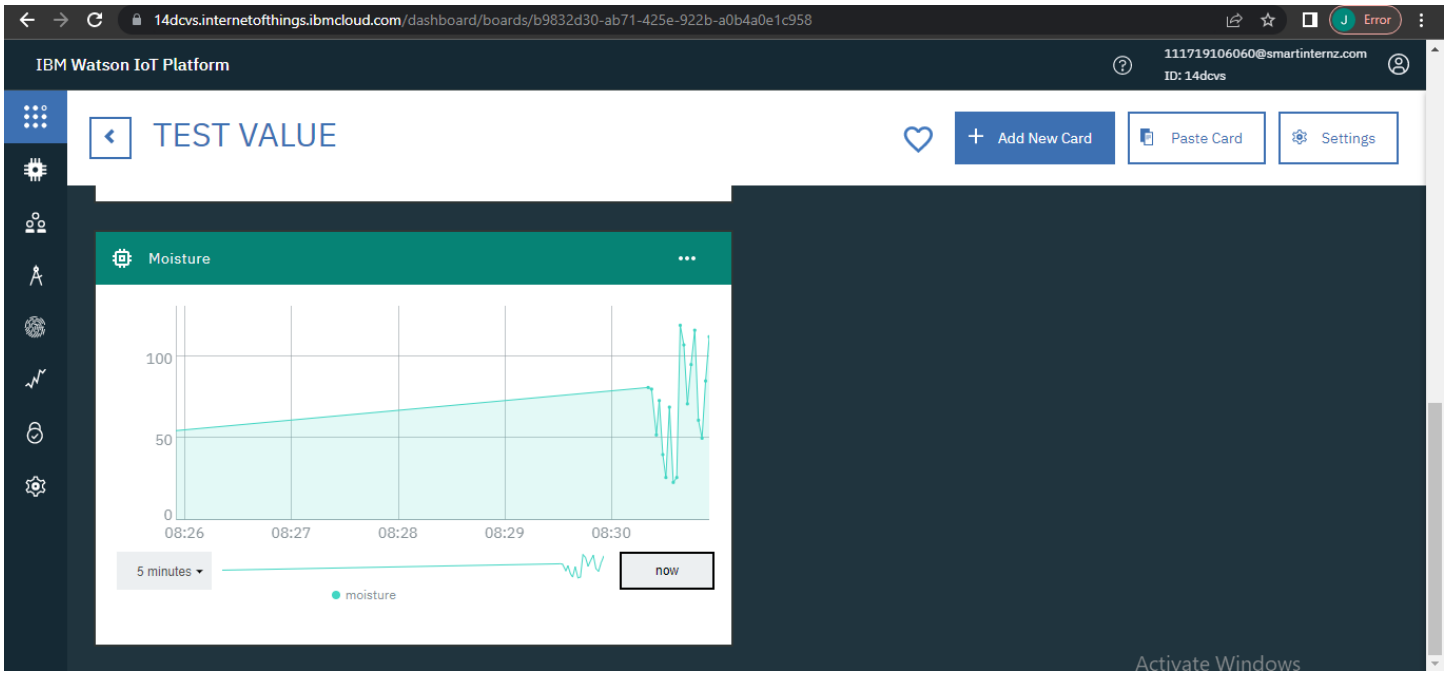
Team Id	PNT2022TMID16026
Project Name	Smart Farmer – IOT Enabled Smart Farming Application

5. Building Project Connecting IOT Simulator to IBM Watson IOT Platform

- Open link provided in above section 4.3
- Give the credentials of your device in IBM Watson IOT Platform
- Click on connect My credentials given to simulator are:
- OrgID: 14dcvs
- Api key : a-14dcvs-xzoonjld1n
- Device type: Device1
- Authentication token: FSaB@(rp7jt2hUXdul
- Device ID: 12345
- Device Token: 87654321
- You can see the received data in graphs by creating cards in Boards tab

You will receive the simulator data in cloud





- You can see the received data in Recent Events under your device
- Data received in this format(json)

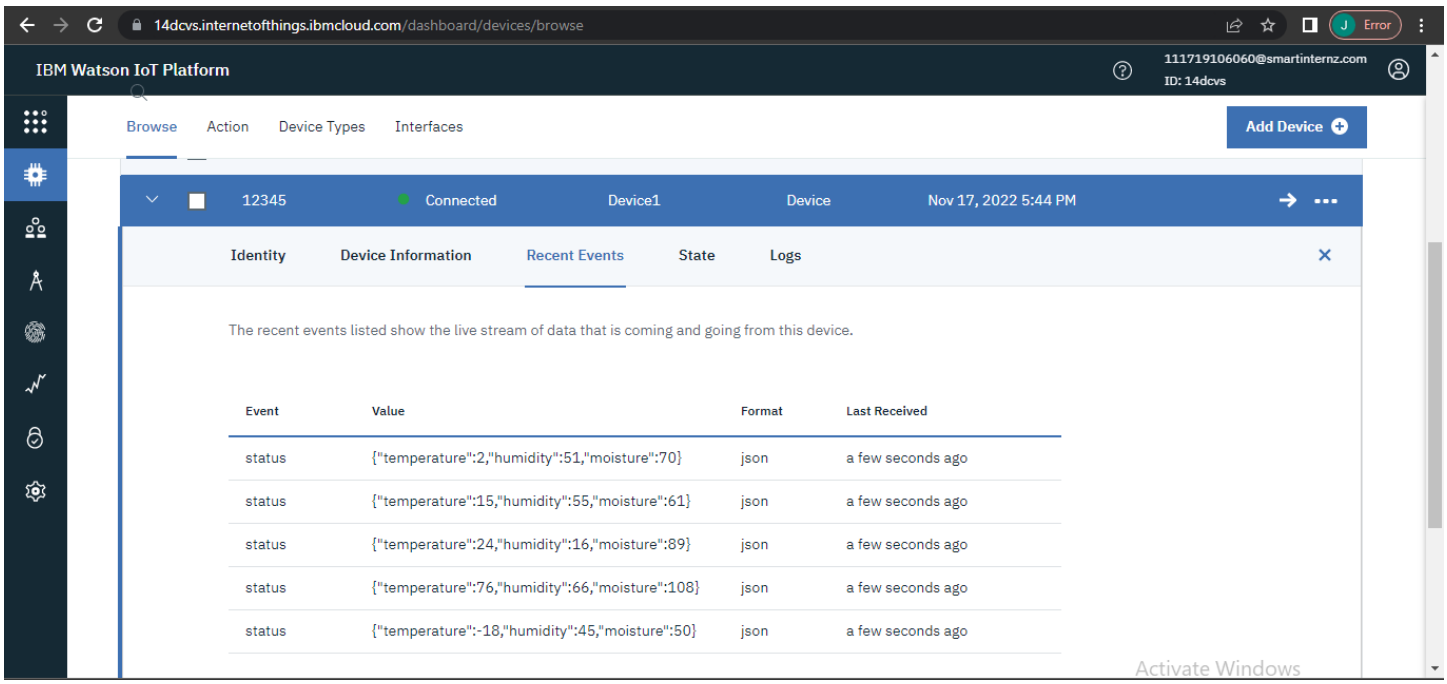
{ "d": {

"name": "Device1",

"temperature": 71,

"humidity": 84,

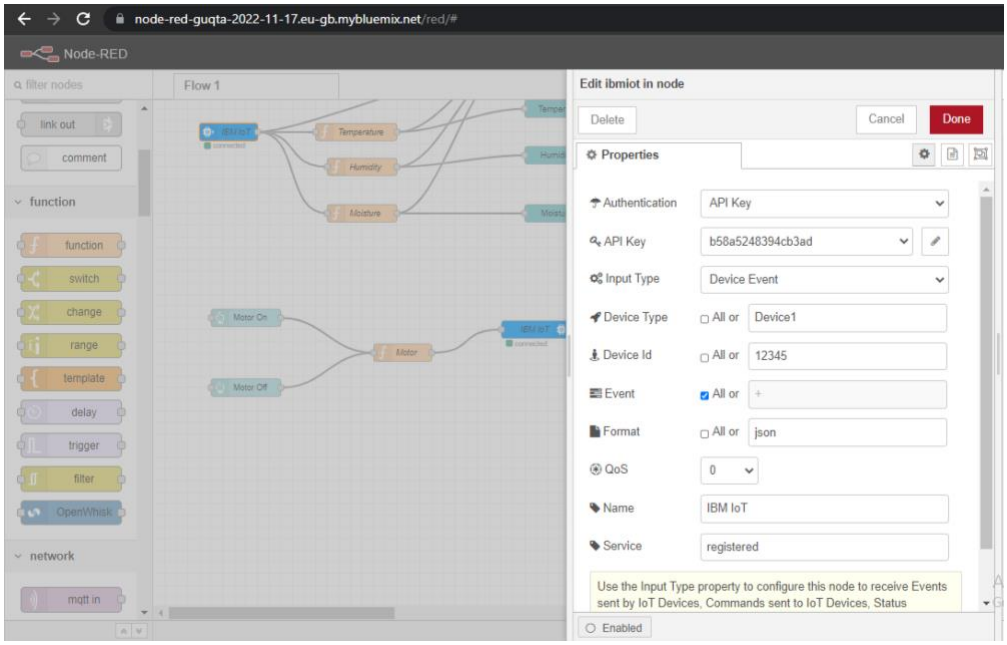
"Moisture ": 78 } }



Configuration of Node-Red to collect IBM cloud data

The node IBM IOT App In is added to Node-Red workflow. Then the appropriate device credentials obtained earlier are entered into the node to connect and fetch device telemetry to Node-Red

Once it is connected Node-Red receives data from the device, Display the data using debug node for verification. Connect function node and write the Java script code to get each reading separately.

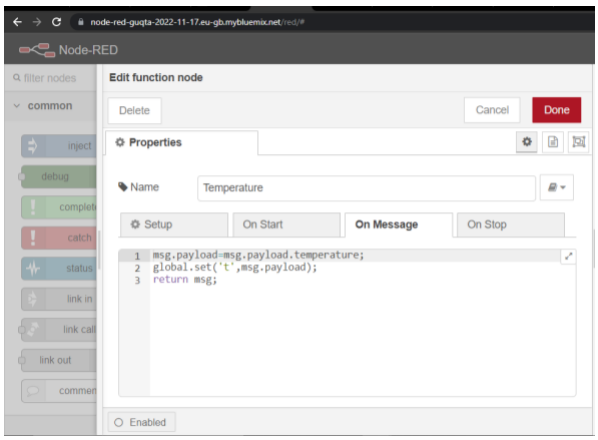


The Java script code for the function node is:

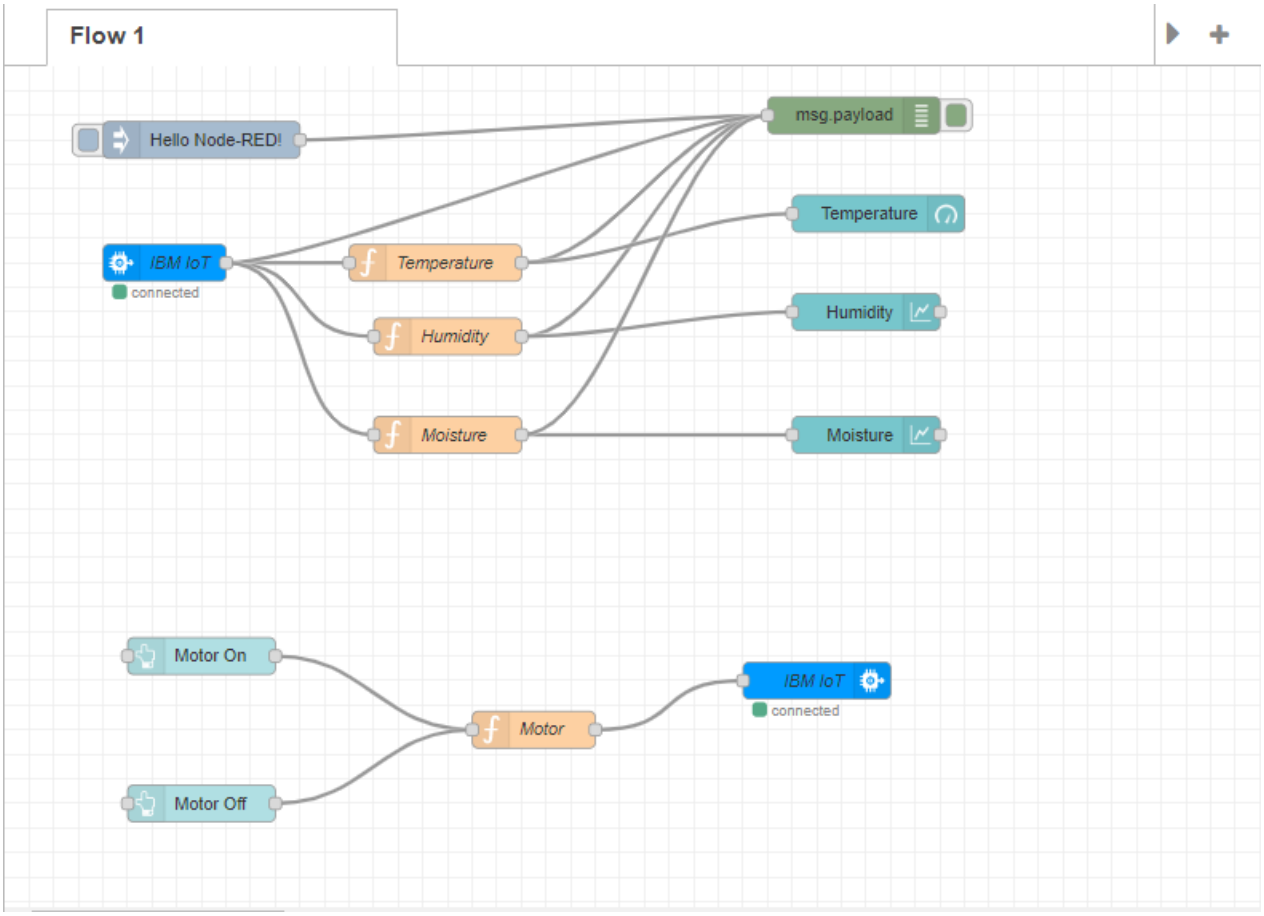
```
msg.payload = msg.payload.temperature;

return msg;
```

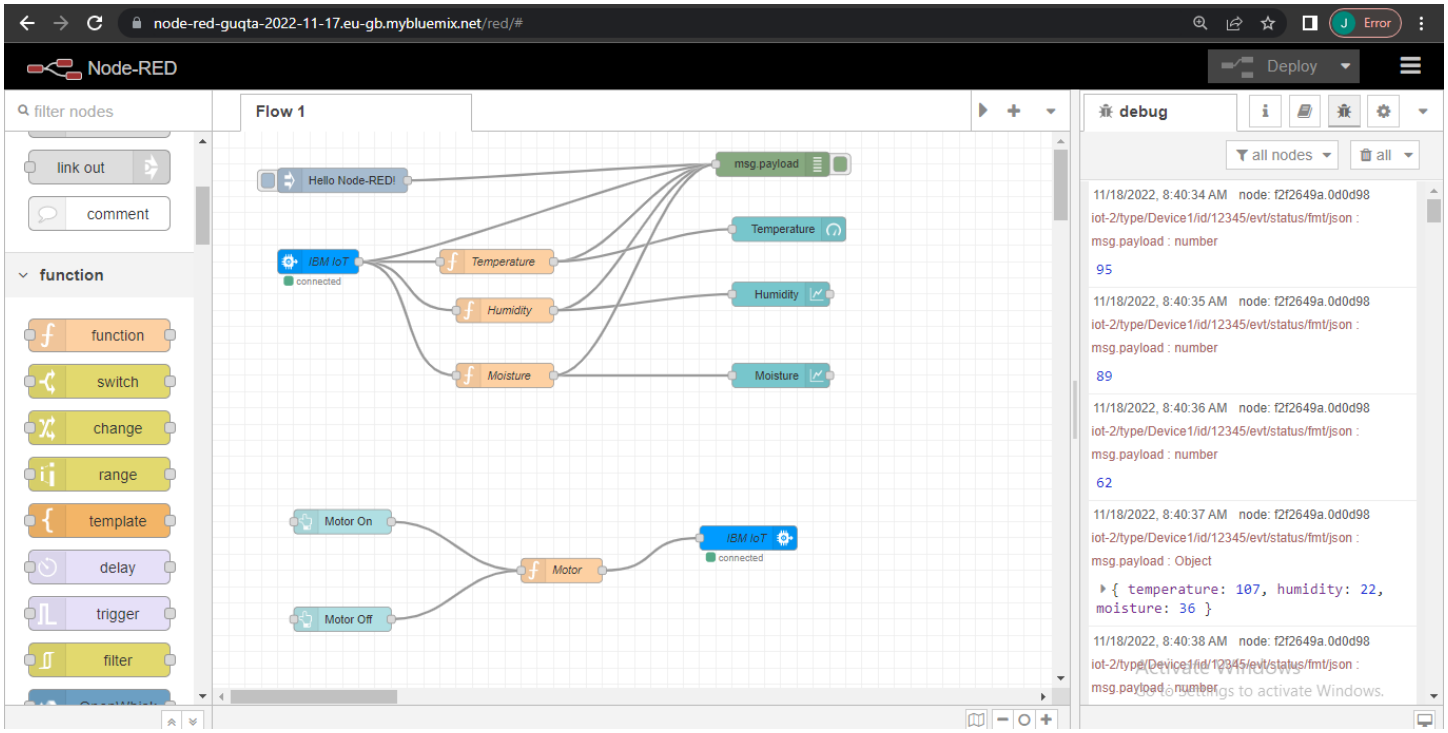
Finally connect Gauge nodes from dashboard to see the data in UI.



Nodes connected in following manner to get each reading separately.



Data received from the cloud in Node-Red console.



Data from Node-Red to MIT app Inventor