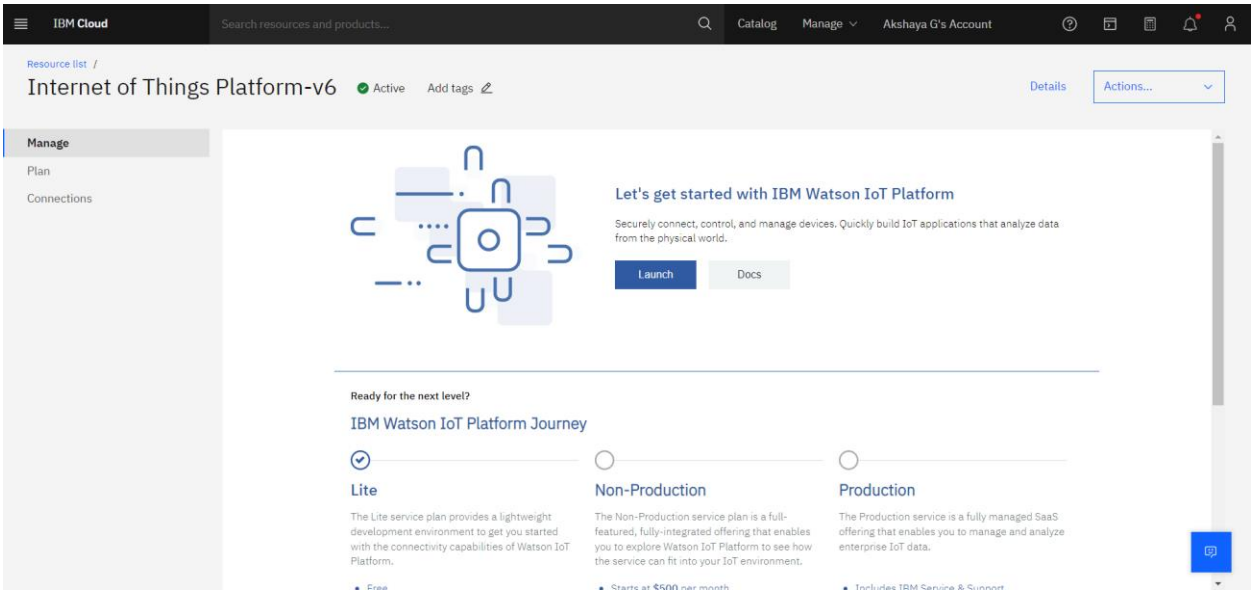
Sprint 2

Software- Create device in the IoT Watson Platform, workflow for IoT Scenarios using Local Node

Date	8 October 2022
Team ID	PNT2022TMID32919
Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application
Maximum Marks	4 Marks

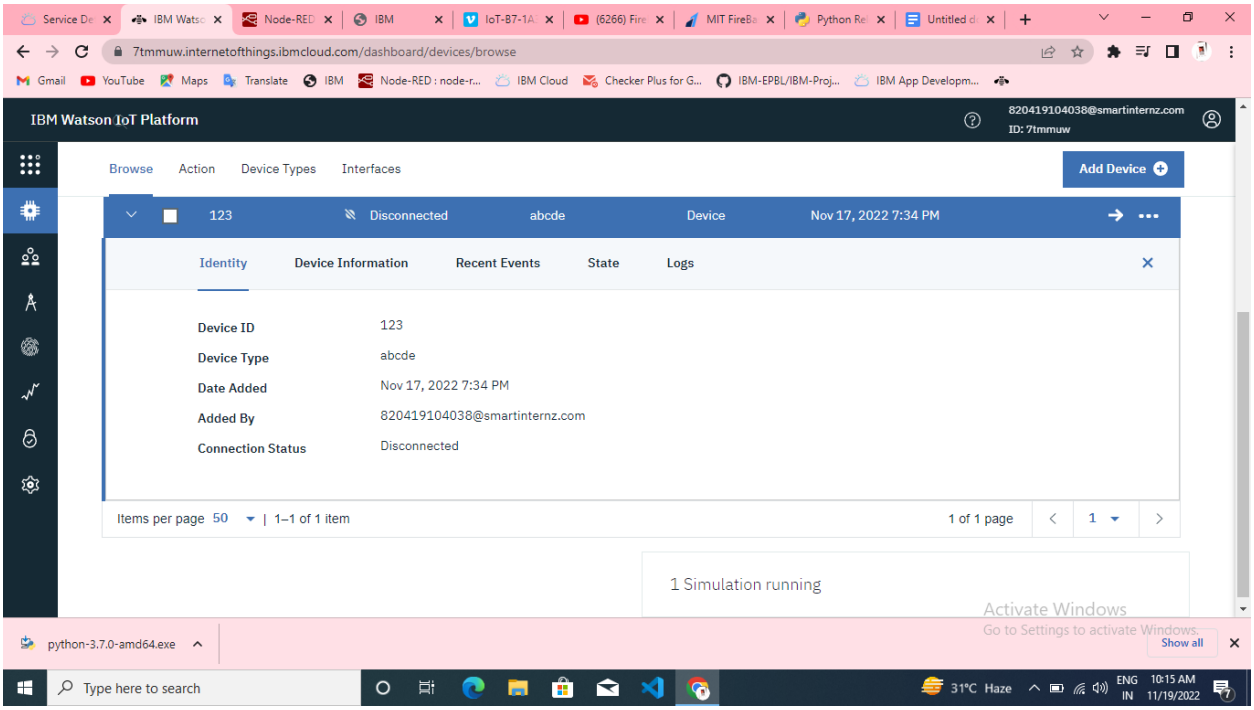
Launch IBM Watson IoT Platform:



Steps to configure:

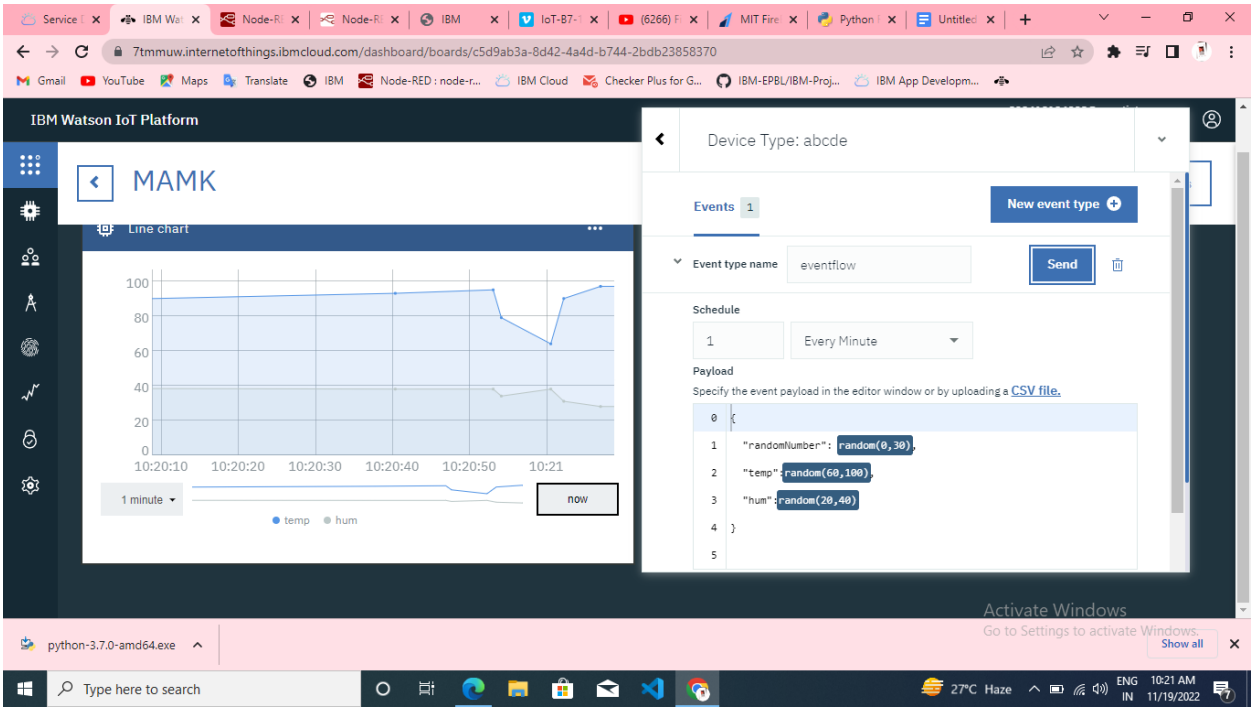
- Create an account in IBM cloud using your email ID
- Create IBM Watson Platform in services in your IBM cloud account
- Launch the IBM Watson IoT Platform
- Create a new device
- Give credentials like device type, device ID, Auth. Token
- Create API key and store API key and token elsewhere.

Create a new device:



IoT Simulator:

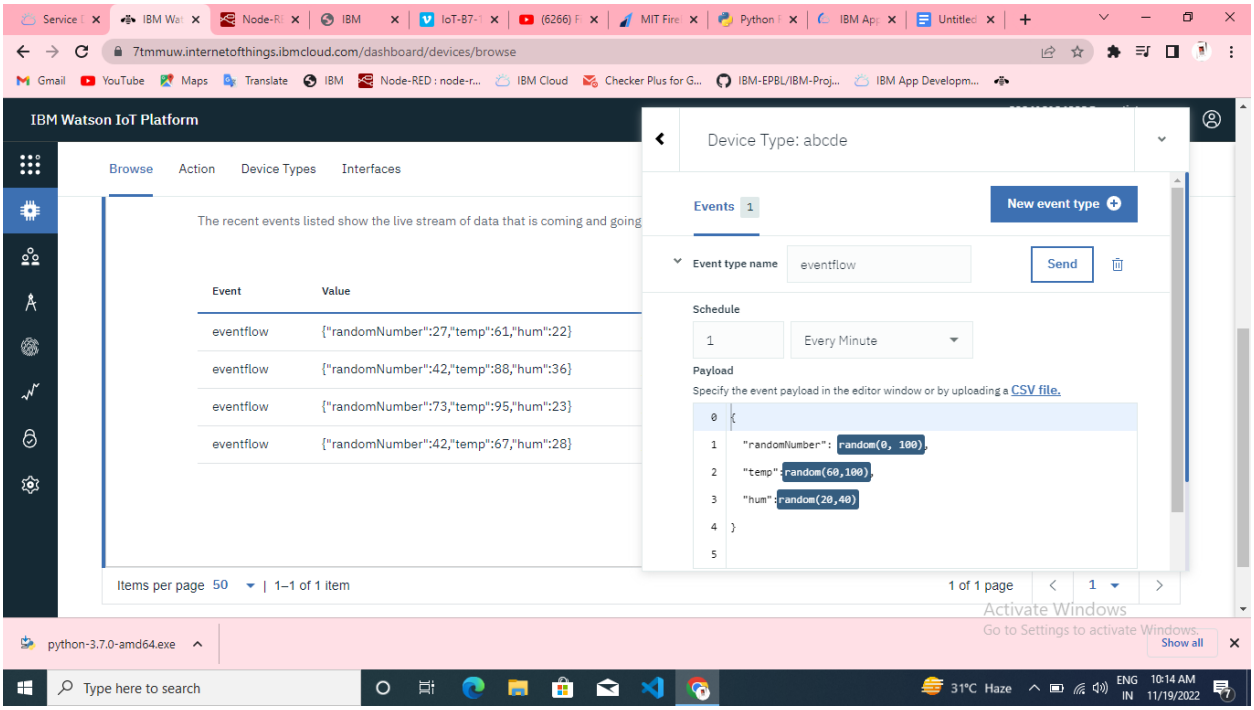
In our project in the place of sensors we are going to use IoT sensor simulator which give random readings to the connected cloud.



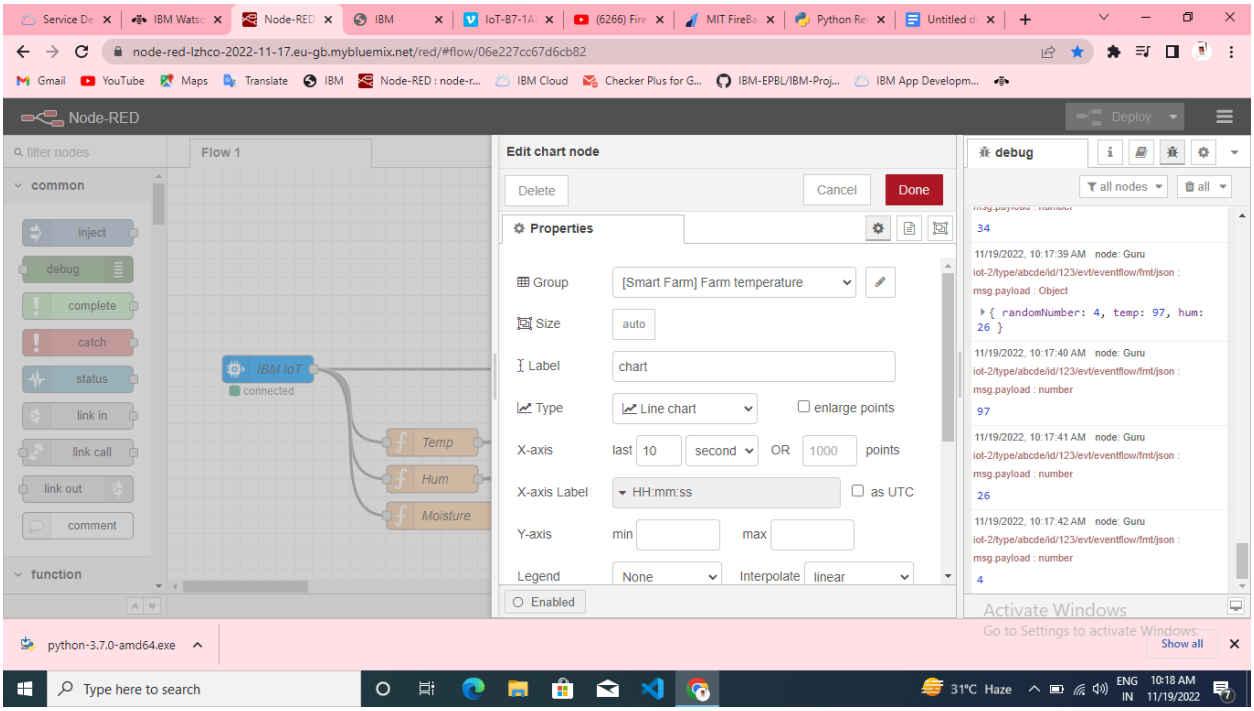
You can see the received data in graphs by creating cards in Boards tab

- 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)

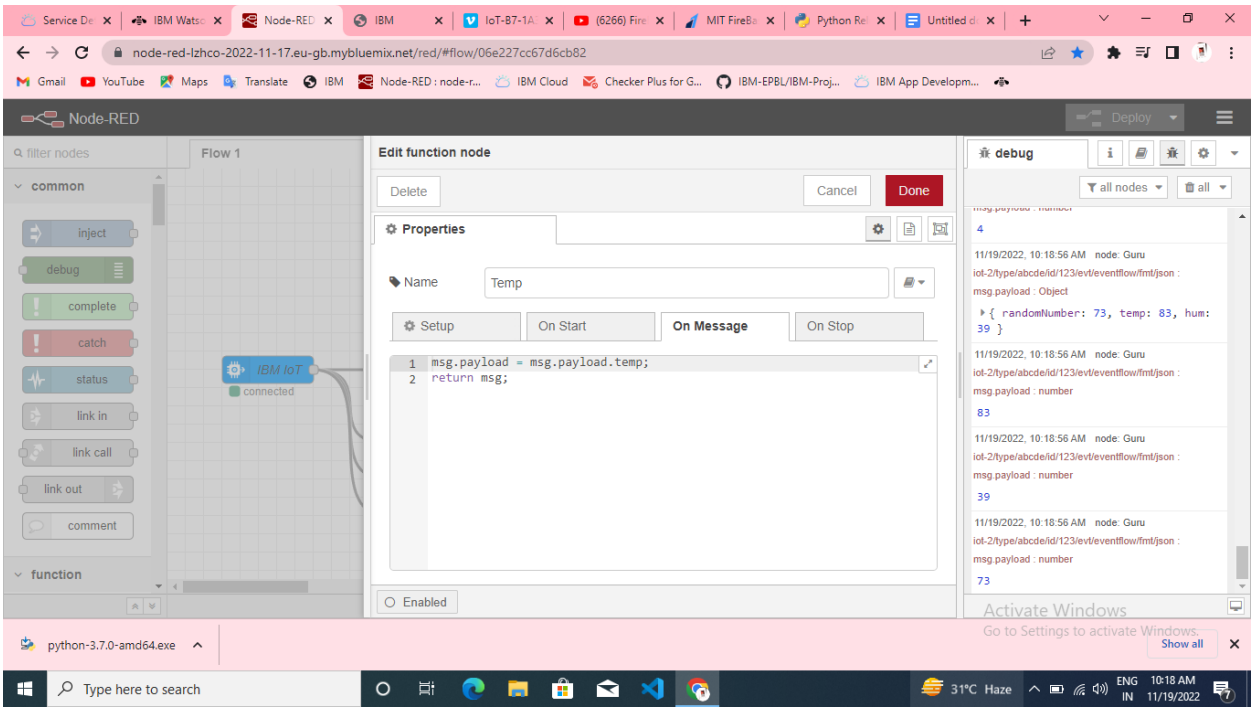


Configuring IBM-IoT to Node-RED connection



Configuration of Node-Red to collect data from OpenWeather

The Node-Red also receive data from the OpenWeather API by HTTP GET request.
An inject trigger is added to perform HTTP request for every certain interval.



Output in Node-RED Dashboard: