SPRINT-1:

Date	29 October 2022
Team ID	PNT2022TMID04463
Project Name	Project – Smart Farmer-IoT Enabled smart
	Farming Application

PYTHON PROGRAM TO GET CONNECTED WITH IBM IOT WATSON PLATFORM:

credentials given to simulator are:

OrgID: f1rqoy

api: a-f1rqoy-gmmftorctd

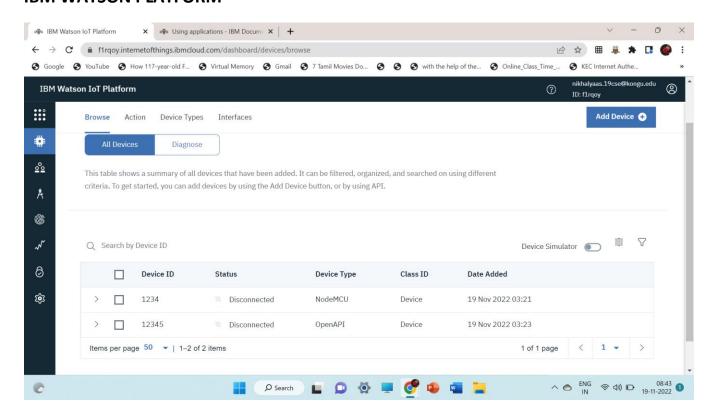
Device type: NodeMCU

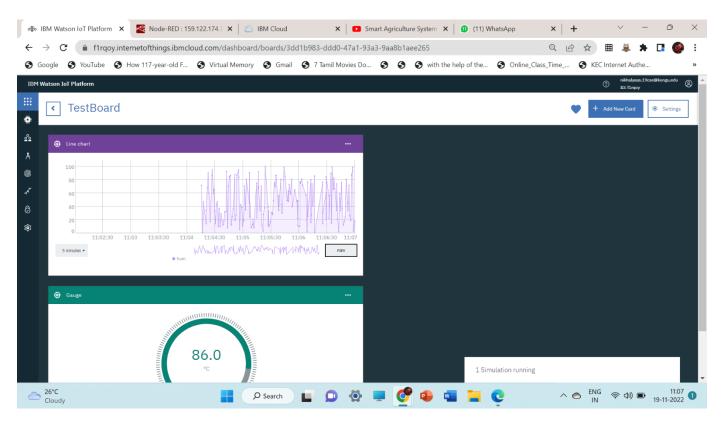
token:yfRSWq(ZTc&im7D8uv

Device ID : **1234**

Device Token: 12345

IBM WATSON PLATFORM



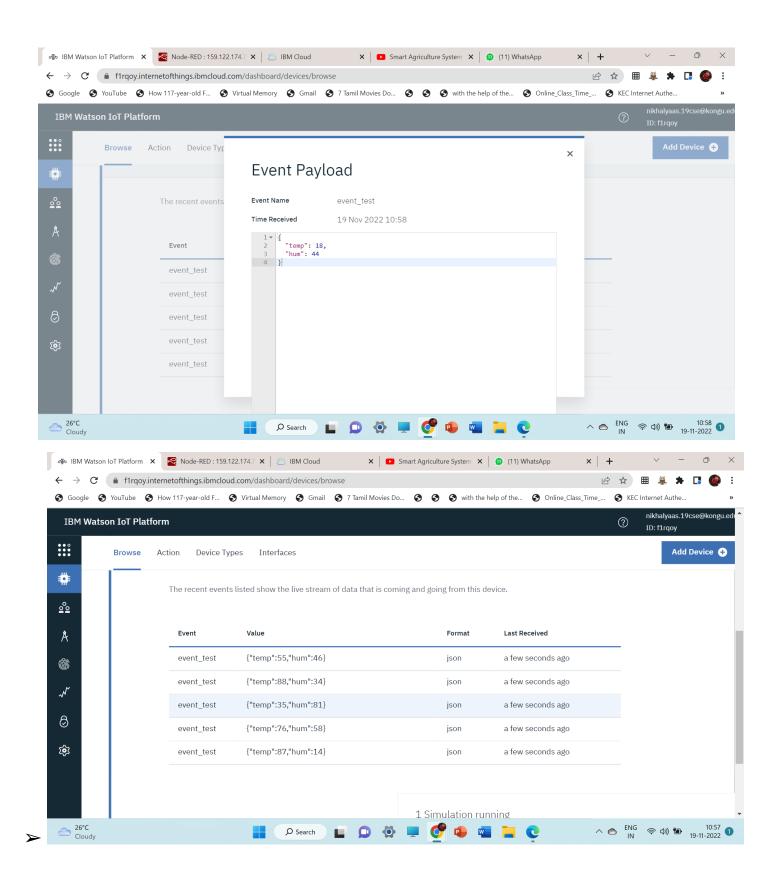


You can see the received data in graphs by creating cards in Boards tab

- > 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": "abcd",
 "temperature": 17,
 - "Moisture ": 25

• "humidity": 76,

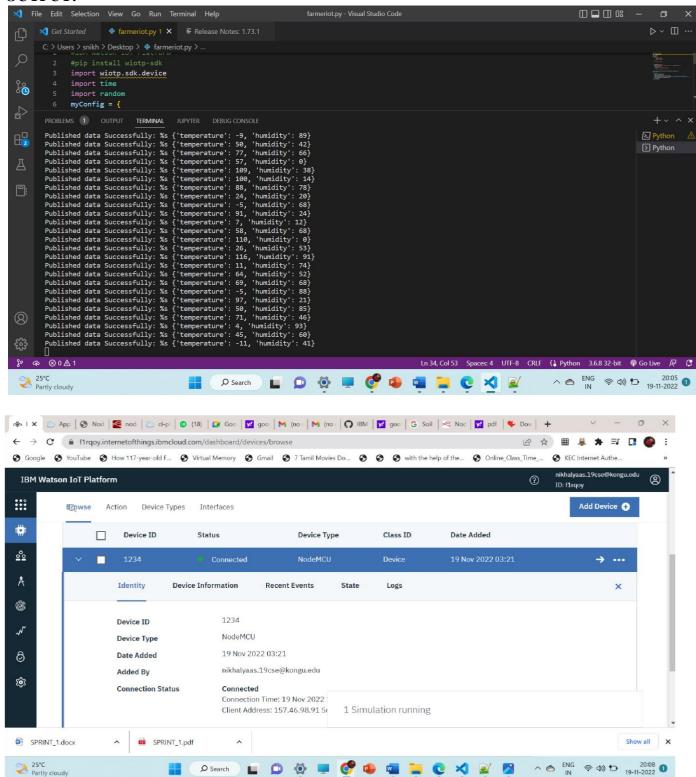
}



Python code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "f1rqoy",
        "typeId": "NodeMCU",
        "deviceId":"1234"
    "auth": {
        "token": "12345678"
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if(m=="Light ON"):
        print("****///Lights are on///***")
    else:
        print("****///Lights are off///***")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

OUTPUT:



THE DEVICE SHOWS CONNECTED STATUS AFTER RUNNING THE CODE