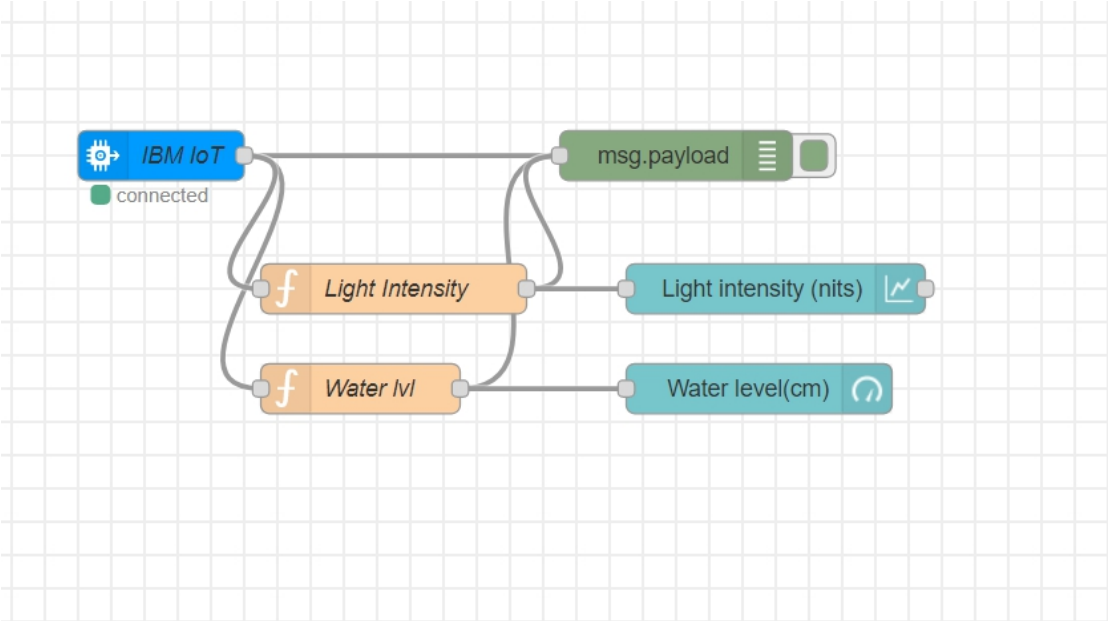
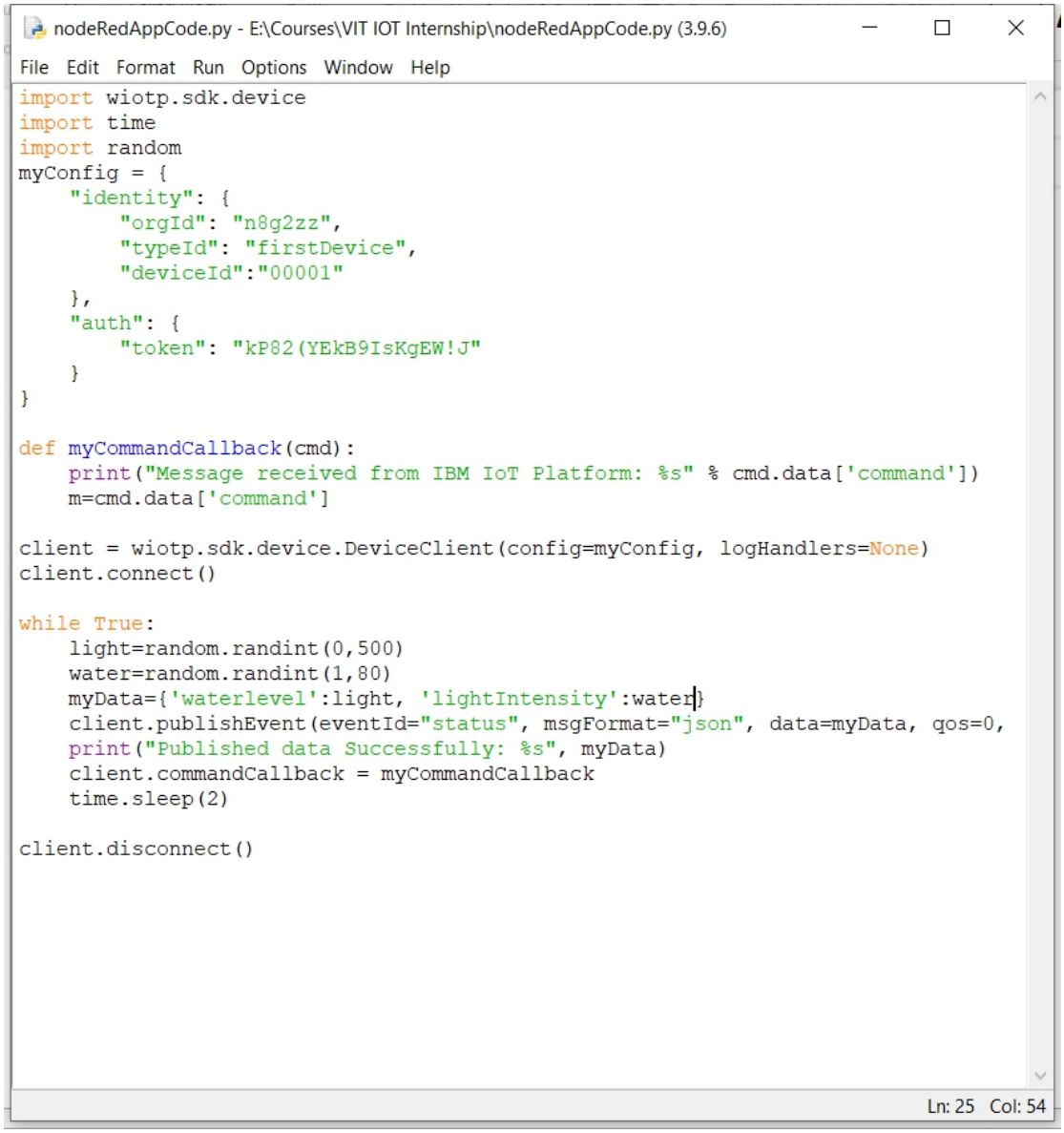
Siddharth Gurnani 19BCE10014
VIT IOT EXTERNSHIP



Map of the node RED app (FLOW)

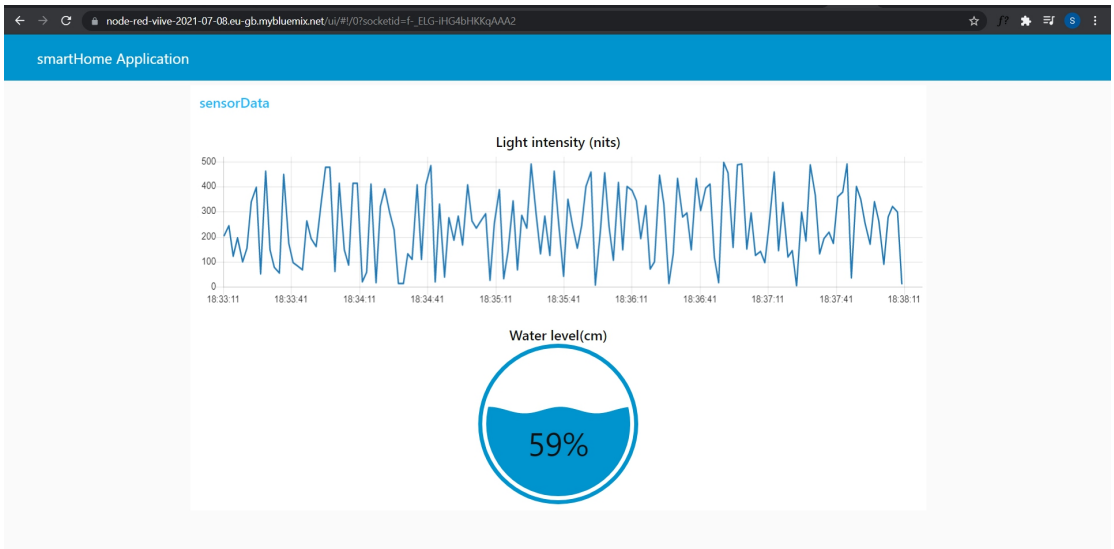


Snapshot of the python code

(Full code is as follows:)

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "n8g2zz",
        "typeId": "firstDevice",
        "deviceId":"00001"
    },
    "auth": {
        "token": "kP82(YEkB9IsKgEW!J"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    light=random.randint(0,500)
    water=random.randint(1,80)
    myData={'waterlevel':light, 'lightIntensity':water}
    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()
```

Python code in action, publishing real time data to the IBM cloud



Snapshot of the UI of the node RED app