PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

Assignment Date	10 November 2022
Team ID	PNT2022TMID52392
Project Name	Gas Leakage Monitoring and Alerting System

Python Code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "0tus0f",
        "typeId": "ESP32",
        "deviceId":"01"
    },
    "auth": {
        "token": "Gowth@m@nk18"
    }
}

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:

    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)

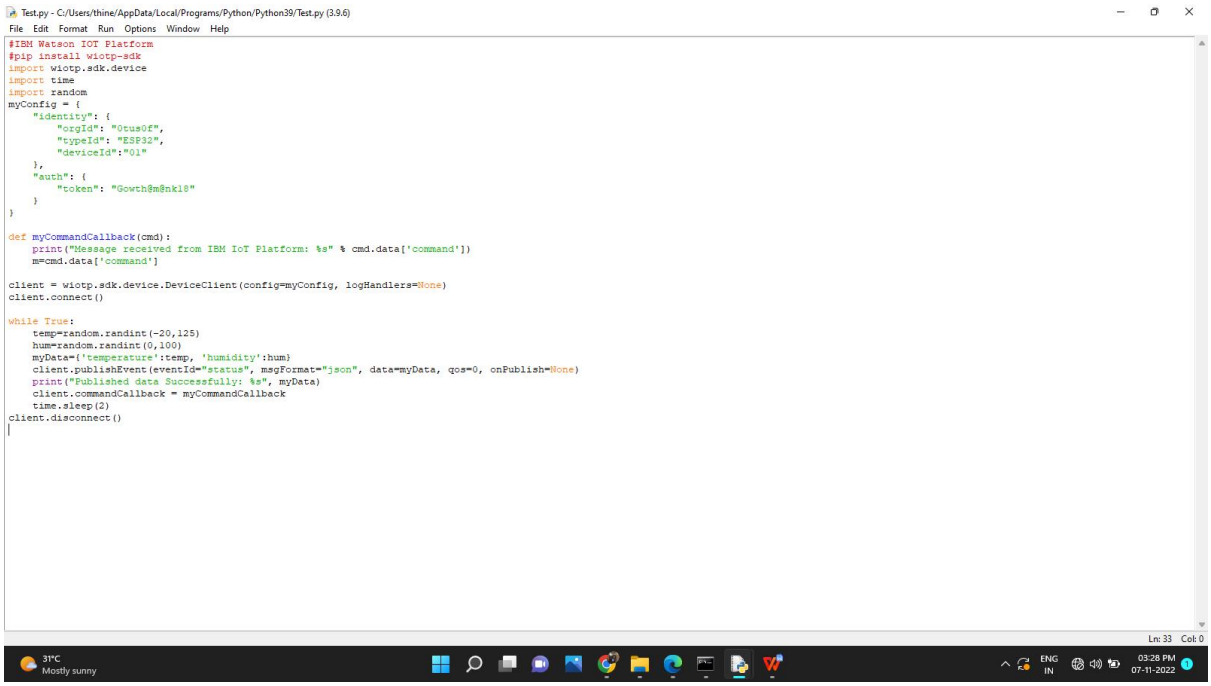
    print("Published data Successfully: %s", myData)

    client.commandCallback = myCommandCallback

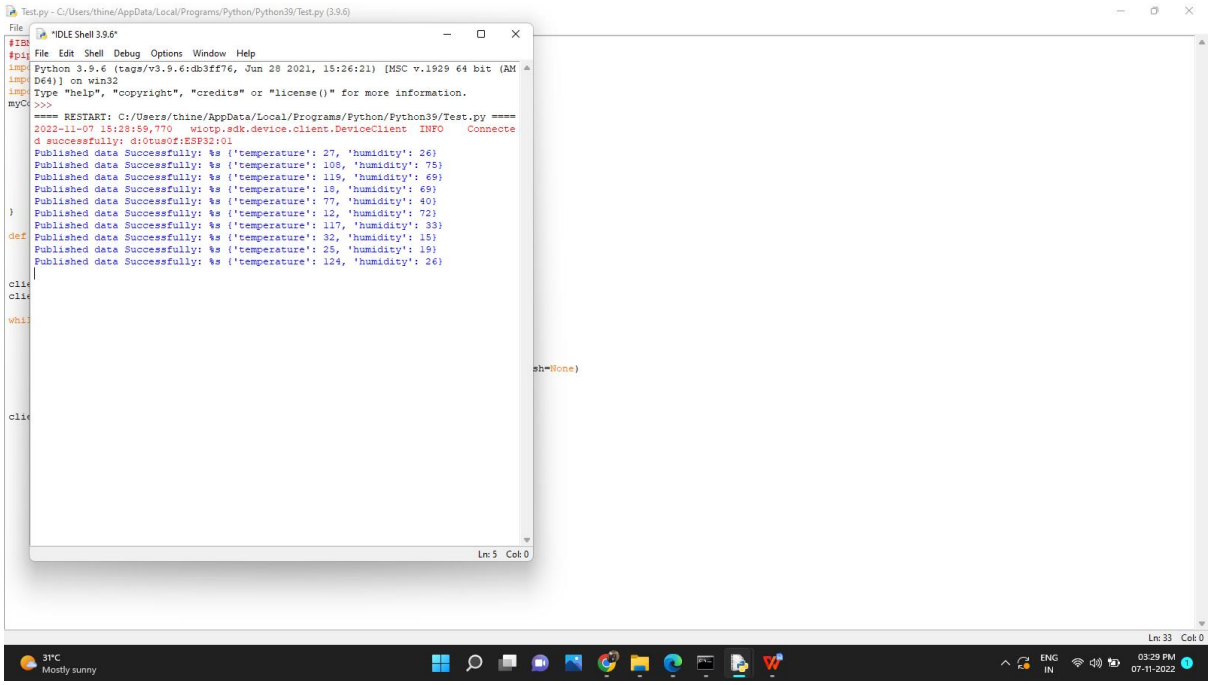
    time.sleep(2)

client.disconnect()

PYTHON CODE:



PYTHON OUTPUT:



Watson Cloud IBM: