DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM

Date	06 November 2022
Team ID	PNT2022TMID41928
Project Name	Real time water quality monitoring and control system

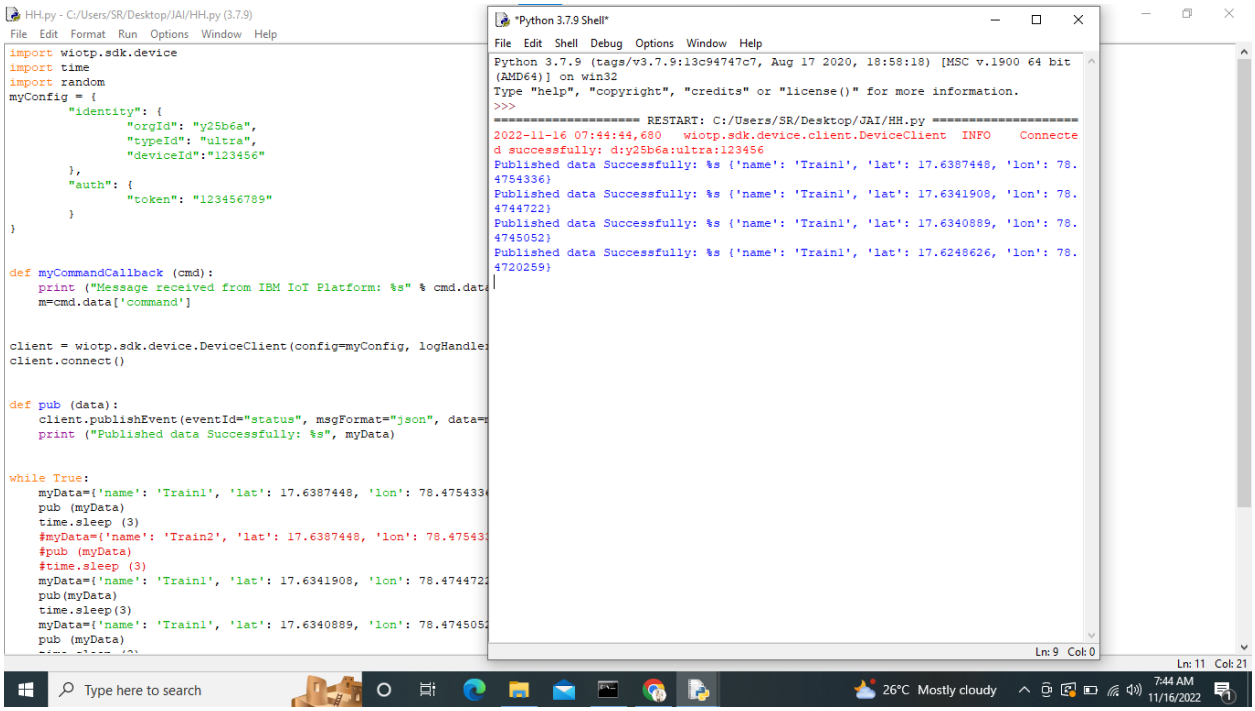
PROGRAM CODE:

```
import wiotp.sdk.device
import time
import random
myConfig = {
        "identity": {
                "orgId": "y25b6a",
                "typeId": "ultra",
                "deviceId":"123456"
        },
        "auth": {
                "token": "123456789"
        }
}
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()
def pub (data):
   client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
   print ("Published data Successfully: %s", myData)
while True:
   myData={'name': 'Train1', 'lat': 17.6387448, 'lon': 78.4754336}
   pub (myData)
   time.sleep (3)
   #myData={'name': 'Train2', 'lat': 17.6387448, 'lon': 78.4754336)
```

```
    #pub (myData)
    #time.sleep (3)
    myData={'name': 'Train1', 'lat': 17.6341908, 'lon': 78.4744722}
    pub(myData)
    time.sleep(3)
    myData={'name': 'Train1', 'lat': 17.6340889, 'lon': 78.4745052}
    pub (myData)
    time.sleep (3)
    myData={'name': 'Train1', 'lat': 17.6248626, 'lon': 78.4720259}
    pub (myData)
    time.sleep (3)
    myData={'name': 'Train1', 'lat': 17.6188577, 'lon': 78.4698726}
    pub (myData)
    time.sleep (3)
    myData={'name': 'Train1', 'lat': 17.6132382, 'lon': 78.4707318}
    pub (myData)
    time.sleep (3)
    client.commandCallback = myCommandCallback
client.disconnect ()
```

OUTPUT:

Develop a python code:



Publish data to the IBM cloud: