Develop A Python Script To Publish And Subscribe To IBM IoT Platform

Date	7.11.2022
Team ID	PNT2022TMID01185
Project Name	SMART FARMER - IOT ENABLED SMART FARMING APPLICATION SYSTEM
Maximum Marks	2 Marks

CODE:

```python
import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = { "identity": {"orgId": "m5ttid","typeId": "DeviceI", "deviceId": "12345"},"auth": {"token": "12345678"} }

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

client.connect ()

def myCommandCallback (cmd) :

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

    m=cmd.data['command']

    if (m=="motoron"):

        print ("Motor is switched on")

    elif (m=="motoroff"):

        print ("Motor is switched OFF")

        print (" ")

        while True:

            soil=random.randint(0,100)
```
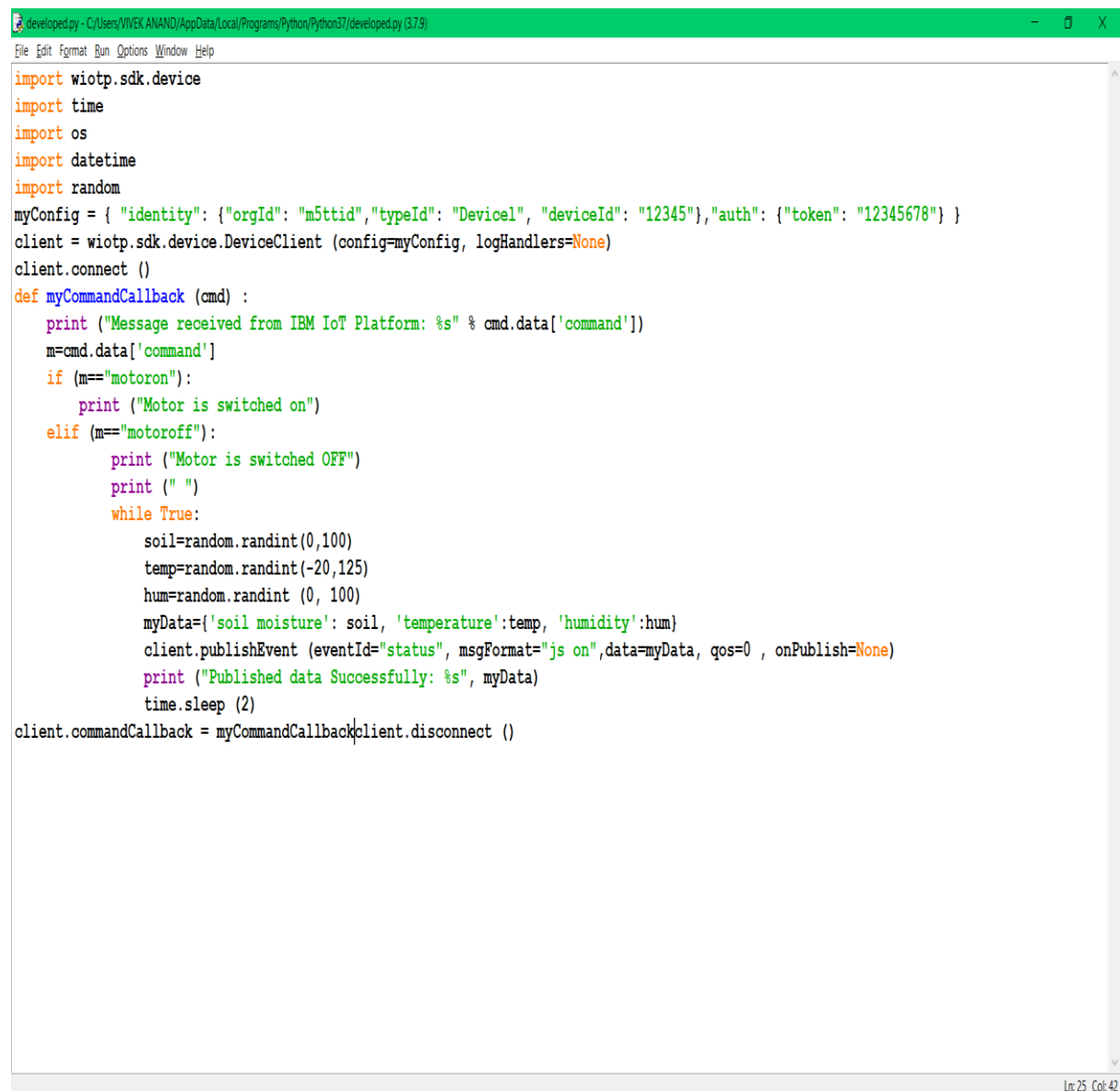
```
        temp=random.randint(-20,125)

        hum=random.randint (0, 100)

        myData={'soil moisture': soil, 'temperature':temp, 'humidity':hum}

        client.publishEvent (eventId="status", msgFormat="js on",data=myData, qos=0 ,
onPublish=None)

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

        time.sleep (2)

client.commandCallback = myCommandCallbackclient.disconnect ()
```