

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

Date	15.11.2022
Team ID	PNT2022TMID46493
Project Name	SMART FARMER - IOT ENABLED SMART FARMING APPLICATION SYSTEM
Maximum Marks	2 Marks

### **CODE:**

```
import wiotp.sdk.device

import time import os

import datetime import

random

myConfig = { "identity": { "orgId": "m5ttid", "typeId": "Device1", "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}

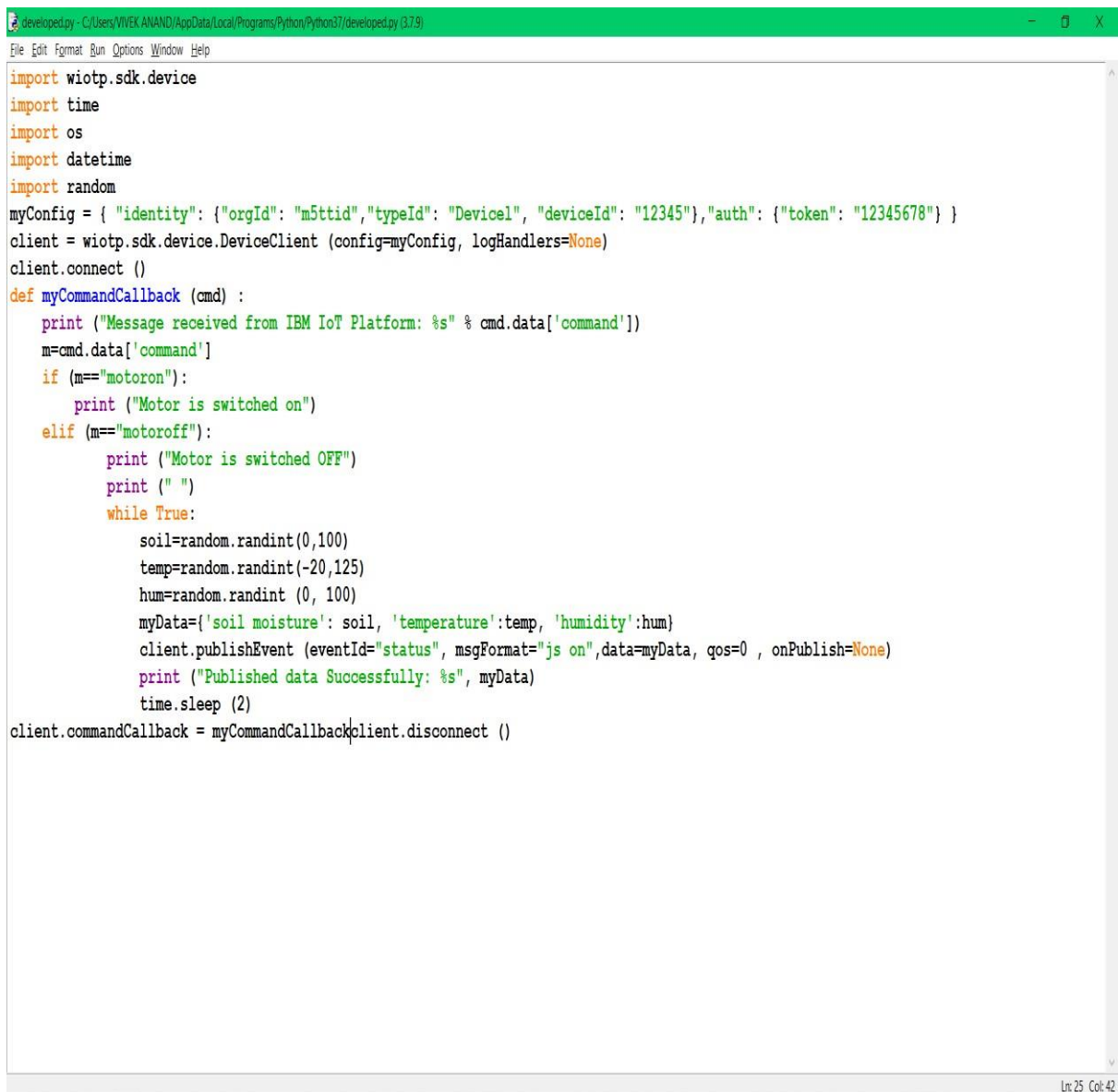
        client.publishEvent (eventId="status", msgFormat="js on",data=myData, qos=0 ,
onPublish=None)

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

time.sleep (2)

client.commandCallback = myCommandCallbackclient.disconnect ()

```



```

developed.py - C:\Users\WVEK ANAND\AppData\Local\Programs\Python\Python37\developed.py (3.7.9)
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = { "identity": { "orgId": "m5ttid", "typeId": "Device1", "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 ()
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```