

Develop A Python Script to Publish and Subscribe To IBM IoT Platform

Program:

```
import wiotp.sdk.device
import time
import os
import datetime
import random

myConfig = {
    "identity": {
        "orgId": "nicw4y",
        "typeId": "DeviceId",
        "deviceId": "69752"
    },
    "auth": {
        "token": "56238232"
    }
}

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="json",

data=myData, qos=0 , onPublish=None)
    print ("Published data Successfully: %s", myData)
    time.sleep (2)
    client.commandCallback = myCommandCallback
client.disconnect ()
```