

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

**Task:** 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": "hjSfmy",
        "typeId": "DeviceId",
        "deviceId": "67890"
    },
    "auth": {
        "token": "87654321"
    }
}
```

```

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 ()

```