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

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Project Name	SMARTFARMER – IOT ENABLED SMART FARMING APPLICATION

PROGRAM:

```
import wiotp.sdk.device import time import os import datetime
import random myConfig = {

 "identity":
 {
"orgId": "hjSfmy",
"typeId": "Devicelk",
"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")
```

```python
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 ()
```