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

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Project Name	SMARTFARMER – IOT ENABLED SMART FARMING APPLICATION

PROGRAM:

```python
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()
```