

Develop a python script to publish and subscribe to IBM IoT platform

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Project Name	SmartFarmer - IoT Enabled Smart Farming Application

Source Code:

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

myConfig = {
    "identity": {
        "orgId": "sgfhcl",
        "typeId": "Sample",
        "deviceId": "73585"
    },
    "auth": {
        "token": "43218765"
    }
}

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 ()
```