

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 :

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity": {
        "orgId": "m5ttid",
        "typeId": "Device1", "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}
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 ()
```