

DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IOT PLATFORM

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TOPIC	SMART FARMER-IOT ENABLED SMART FARMING APPLICATION

PYTHON CODE:

```
from pickle import TRUE

import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = {"identity": {"orgId": "ka1ghd", "typeId": "NodeMCU", "deviceId": "250402"},
"auth": {"token": "9487936557"}}

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: ", myData)

time.sleep(2)

client.commandCallback = myCommandCallback

client.disconnect()
```