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

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Project Name	Project – Smart Farmer-IoT Enabled smart Farming Application

Program:

```
import wiotp.sdk.device
import time  import os
import datetime  import
random
myConfig = {
 "identity": {
 "orgId": "m5ttid",
"typeId": "Devicel",
"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.ra ndint (0,100)
temp=random.r andint (-20, 125)
hum=random.r andint (0, 100)
myData={'soil moisture':  soil,
'temperature':te mp, 'humidity':hum
```

```
} client.publishEvent (eventId="statu s", msgFormat="js on", data=myData, qos=0 ,
onPublish=None)  print ("Published data Successfully: %s", myData) time.sleep (2)
client.commandCallback = myCommandCallback client.disconnect ()
```