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

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Team ID	PNT2022TMID41919
Project Name	SmartFarmer - IoT Enabled Smart Farming Application

PROGRAM CODE:

```
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "5myh1a",
    "typeId": "iot device",
    "deviceId":"12344321"
  },
  "auth": {
    "token": "9894976519"
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
def myCommandCallback (cmd):
  print ("Message received from IBM loT Platform: %s" % cmd.datal['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 ()
```

OUTPUT:

