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

TITLE	Smart Farmer-IOT Enabled Smart Farming Application
DOMAIN NAME	INTERNET OF THINGS
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PROGRAM:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "idr6ct",
    "typeId": "NodeMCU",
    "deviceId":"12345"
  },
  "auth": {
    "token": "12345678"
  }
}
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(" ")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  temp=random.randint(-20,125)
```

```
hum=random.randint(0,100)
moist=random.randint(0,14)
myData={'temperature':temp, 'humidity':hum, 'Moisture':moist}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: %s", myData)

client.commandCallback = myCommandCallback
time.sleep(2)
client.disconnect()
```