

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

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Team ID	PNT2022TMID34723
Project Name	SMARTFARMER-IoT ENABLED SMARTFARMING 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):
```

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```
print ("Message received from IBM IoT  
Platform: %s" %cmd.data['command'])  
  
m=cmd.data['comman  
d']if (m=="motoron"):  
print ("Motor is switchedon")  
elif (m=="motoroff"):  
print ("Motor is switchedOFF")  
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 =myCommandCallbackclient.disconnect ()
```