

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

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Team ID	PNT2022TMID29181
Project Name	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": "Device1",
"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['comman
d']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 =
myCommandCallbackclient.disconnect ()
```