

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

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Team ID	PNT2022TMID33523
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['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 =
myCommandCallbackclient.disconnect ()
```