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

Team ID	PNT2022TMID28746
Project Name	SMARTFARMER – IoT ENABLED SMART FARMING APPLICATION

PROGRAM :

```
import wiotp.sdk.device
import time import os
import datetime import
random myConfig = {
"identity": {
"orgId": "hjSfmy",
"typeId": "Devicelk",
"deviceId": "67890"
},
"auth": {
"token": "87654321"
} }
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.ra
ndint        (0,100)
temp=random.r
andint        (-20,
125) hum=random.r
andint (0, 100)
myData={'soil
moisture': soil,
```

```python
        'temperature':te mp,
        'humidity':hum }
    client.publishE vent
    (eventId="statu
    s",
    msgFormat="js
    on",
    data=myData, qos=0 , onPublish=None) print ("Published
    data Successfully: %s", myData) time.sleep (2)
client.commandCallback = myCommandCallback
client.disconnect ()
```