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

Team ID	PNT2022TMID32919
Project Name	Project – 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": "Devicel",
"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.ra ndint (0,100)
temp=random.r andint (-20, 125)
hum=random.r andint (0, 100)
myData={'soil moisture':
soil, 'temperature':temp, 'humidity':hum
} client.publishEvent (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 ()
```