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

Task Id	TSK-197744
Team ID	PNT2022TMID48188
Project Name	SMARTFARMER – IoT ENABLED SMART FARMING APPLICATION

PROGRAM :

```python
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.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 = myCommandCallback client.disconnect ()
```