

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

Project title	Smart Farmer-IOT Enabled Smart Farming Application
TEAM ID	PNT2022TMID25834

PROGRAM :

```
import wiotp.sdk.device
import time import os
import datetime
import random

myConfig = { "identity": { "orgId": "m5ttid", "typeId": "Device",
"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':te mp, 'humidity':hum }
    client.publish Event (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 ()
```