

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

Team ID	PNT2022TMID47404
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": "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 = myCommandCallback client.disconnect ()
```