

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

| | |
|--------------|--|
| Date | 06 November 2022 |
| Team ID | PNT2022TMID38131 |
| Project Name | Project - SmartFarmer -IOT Enabled smart farming application |

PROGRAM:

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

myConfig = {
    "identity": {
        "orgId": "fxm0tp",
        "typeId": "SMART-IOT",
        "deviceId": "MSVS-SMART-IOT"
    },
    "auth": {
        "token": "R&-B5p)HZ!e3_@Lt6B"
    }
}

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 ()
```