

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

Team ID	PNT2022TMID19088
Project Name	IOT-Smart farmer
Maximum Marks	4 Marks

DEVELOP PYTHON CODE :

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity":
    {
```

```
"orgId": "ofymg2",
"typeId": "Ultrasonic_sensor03",
"deviceId": "012"
},
"auth":
{
    "token": "87654321"
}
}
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()
```