

Develop A Python Script to Publish and Subscribe To IBM IoT Platform

Team ID	PNT2022TMID27105
Project Name	Smartfarming -IOT Based Smart Farming Application

Program:

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
    "identity": {
        "orgId": "hjSfmy",
        "typeId": "DeviceId",
        "deviceId": "67890"
    },
    "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 ()

```