DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSRIBETO IBM IOT PLATFORM

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Team ID	PNT2022TMID49408
Project Name	Smart Farmer - IoT Enabled Smart Farming Application

PROGRAM:

```
import
wiotp.sdk.devic
e import time
import      os
import datetime
import
random
myConfig = {
"identity": {
"orgId": "m5ttid",
"typeId": "DeviceI",
"deviceId": "12345"
},
"auth": {
"token": "12345678"
}
}
client                        =
wiotp.sdk.device.DeviceClient
(config=myConfig,logHandlers=Non
```

```python
e) 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 ()
```