

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

TEAM ID	PNT2022TMID12914
Project Name	Smart Farmer - IOT Enabled Smart Farming Application

PROGRAM:

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

"identity":
{
"orgId": "jztdcw",
"typeId": "NodeMCU",
"deviceId": "node-mcu-4321"
},
"auth":
{
"token": "987654321"
}}
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()
```