

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

Team ID	PNT2022TMID54001
Project Name	SmartFarmer - IoT Enabled Smart Farming Application

PROGRAM :

```
import wiotp.sdk.device
import time import os
import datetime import
random myConfig =
{ "identity": {
"orgId": "hjSfmy",
"typeId": "DeviceIdk",
"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.ra
ndint (0,100)
temp=random.r
```

```

andint    (-20,
125)
hum=random.ra
ndint (0, 100)
myData={'soil
moisture': soil,
'temperature':te
mp,
'humidity':hum
}
client.publishE
vent
(eventId="statu
s",
msgFormat="js
on",
data=myData,
qos=0
,
onPublish=Non
e)    print
("Published
data
Successfully: %
s",    myData)
time.sleep (2)
client.commandCallback = myCommandCallback
client.disconnect ()

```