

Smart Farmer-IOT Enabled Smart Farming Application

IBM NALAIYATHIRAN

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

TITLE	Smart Farmer-IOT Enabled Smart Farming Application
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID21910

PROGRAM :

```
import wiotp.sdk.device
import time import os import
datetime import random
myConfig = { "identity": {
"orgId": "m5ttid",
"typeId": "Device1",
"deviceId": "12345"
},
"auth": {
"token": "12345678"
} }
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.r
andint (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=None) print ("Published data  
Successfully: %s", myData) time.sleep (2)  
client.commandCallback = myCommandCallback client.disconnect  
(
```