

Smart Farmer-IOT Enabled Smart Farming Application

IBM NALAIYATHIRAN

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

TITLE	Smart Farmer-IOT Enabled Smart Farming Application
DOMAIN NAME	INTERNET OF THINGS
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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 ()
```