

# Smart Farmer-IOT Enabled Smart Farming Application

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

<b>TITLE</b>	Smart Farmer-IOT Enabled Smart Farming Application
<b>DOMAIN NAME</b>	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 ()

```