

**DEVELOP PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE
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="status",
msgFormat="json",
data=myData, qos=0, onPublish=None) print
("Published data Successfully: %s", myData)
time.sleep (2)
client.commandCallback = myCommandCallback
client.disconnect ()
```