

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

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Project Name	SMARTFARMER – IoT ENABLED SMART FARMING APPLICATION

PROGRAM :

```
import wiotp.sdk.device
import time import os
import datetime import
random myConfig = {
"identity": {
"orgId": "8jst89",
"typeId": "Device1",
"deviceId": "14042"
},
"auth": {
"token": "30042002"
} }
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 ()
```