

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

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Project Name	Smart Farmer - IoT Enabled Smart Farming Application
Team Id	PNT2022TMID27433

CODE:

```
import
wiotp.sdk.device
import time
import os
import
datetime
import
random myConfig = {
"identity": {
"orgId": "oqy2ad" ,
"typeId": "ESP32" ,
"deviceId": "NodeMCU"
},
"auth": {
"token": "123456789"
}
}
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['comman
d']if (m== "motoron"):
print ("Motor is switched
on")elif (m== "motoroff"):
print ("Motor is switched
OFF")print (" ")
while True:
```

```
soil=random.randint (0,100)
temp=random.randint (-20, 125)
hum=random.randint (0, 100)
myData={'soil moisture': soil, 'temperature':temp, 'humidity':hum}
client.publishEvent (eventId= "status" , msgFormat= "json" ,
data=myData, qos=0 , onPublish=None)
print ("Published data Successfully: %s" ,
myData)time.sleep (2)
client.commandCallback = myCommandCallbackclient.disconnect ()
```