

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

Team ID	PNT2022TMID15129
Project Name	Smart Farmer-IOT Enabled Smart Farming Application
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PROGRAM :

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig={"identity":{"orgId":"haFmSy",
"deviceId": "01234" },
"auth": { "token": "23456789" } }
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.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 = myCommandCallback
client.disconnect ()
```