

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

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Project Name	SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

PROGRAM :

```
import wiotp.sdk.device
import time import os
import datetime import
random myConfig = {
"identity": {
"orgId": "hjSfmy",
"typeId": "DeviceIdk",
"deviceId": "67890"
},
"auth": {
"token": "87654321"
} }
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':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 ()
```