

PROJECT NAME: REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

TEAM ID : PNT2022TMID12872

PYTHON SCRIPT

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "eoic67",
        "typeId": "testdevicetype",
        "deviceId": "123456"
    },
    "auth": {
        "token": "cth36S*ZLw61v4ALMe"
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])

    m=cmd.data['command']
    if (m=="LIGHT ON"):
        print("light are on")
    elif(m=="LIGHT OFF"):
        print("lights off")
    else:
        print("something wrong")

    client = wiotp.sdk.device.DeviceClient(config=myConfig,
    logHandlers=None)client.connect()
    while True:
```

```
temp=random.randint(-20,125)
hum=random.randint(0,100)
myData={'temperature':temp, 'humidity':hum}

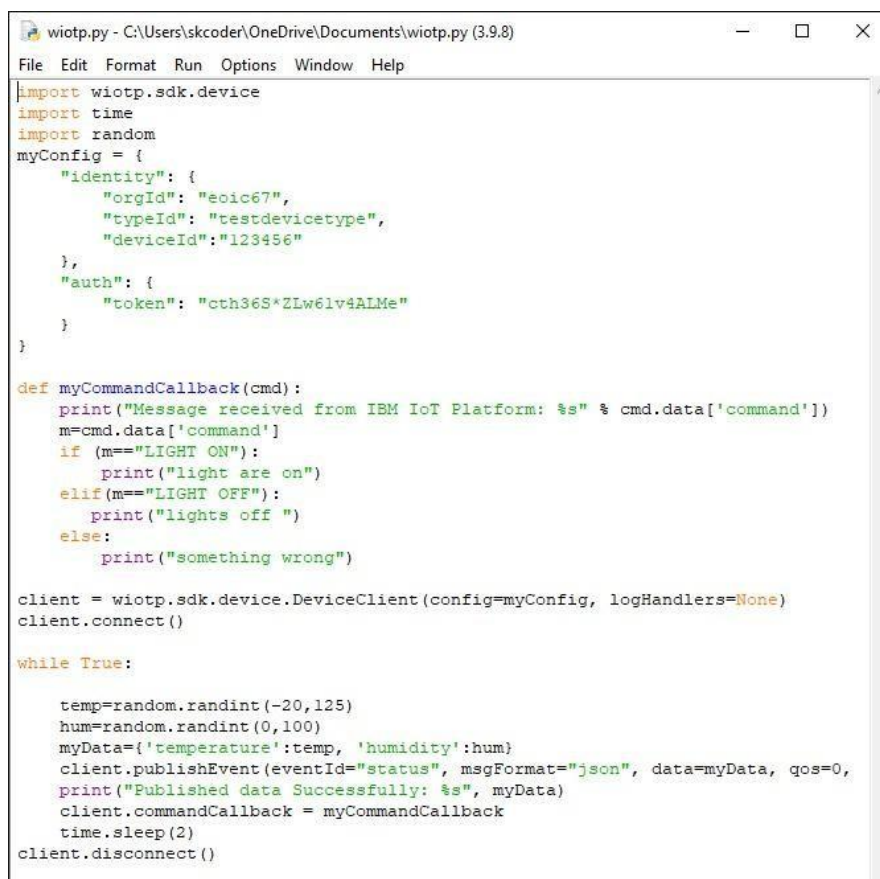
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)

print("Published data Successfully: %s", myData)

client.commandCallback =

myCommandCallbacktime.sleep(2)

client.disconnect()
```



```
wiotp.py - C:\Users\skcoder\OneDrive\Documents\wiotp.py (3.9.8)
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "soic67",
        "typeId": "testdevicetype",
        "deviceId": "123456"
    },
    "auth": {
        "token": "cth36S*ZLw6lv4ALMe"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if (m=="LIGHT ON"):
        print("light are on")
    elif(m=="LIGHT OFF"):
        print("lights off ")
    else:
        print("something wrong")

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:

    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```