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import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = {
    "identity": {
        "orgId": "u9qhfi",
        "typeId": "Devicetype1",
        "deviceId": "DeviceID1"
    },
    "auth": {
        "token": ")hSb7_ZD+evl2fRhXi"
    }
}

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)

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time.sleep (2)
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client.commandCallback = myCommandCallback
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client.disconnect ()
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