# Python code to publish and subscribe to IBM IOT platform:

import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = {

"identity": {

"orgId" :"xcjqgo",

"typeId":"ESP32",

"deviceId":"IBM17"

},

"auth": {

"token":"12345678"

}

}

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()



