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

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| Project Name | SmartFarmer – IoT ENABLED SMART FARMING APPLICATION |

**PROGRAM**

import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = {

"identity": {

"orgId": "0ooi4r",

"typeId": "Device0",

"deviceId": "262605"

},

"auth": {

"token": "098765432"

}

}

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=ramdom.randint(0,100)

temp=ramdom.randint(-20,125)

hum=ramdom.randint(0,100)

myData={'soil moisture': soil, 'temperature':temp, 'humidity':hum}

clint.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()