DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSRIBE

TO IBM IOT PLATFORM

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| Date | 05 November 2022 |
| Team ID | PNT2022TMID27179 |
| Project Name | Smart farmer -IOT enabled smart farming application |

**PROGRAM:**

import wiotp.sdk. device

import time

import os

import datetime

import random

myConfig = {

"identity": {

"orgId": "0wi63u",

"typeId": "NodeMcu",

"deviceId": "12345"

},

"auth":

{

"token": "asdfghjkl"

}

}

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=="motor on"):

print ("Motor is switched on")

elif (m=="motor off"):

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 ()