DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUSCRIBE IBM IOT PLATFORM

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| ***Team ID*** | ***PNT2022TMID37002*** |
| ***Project Name*** | ***Smart Farmer - IoT Enabled Smart Farming Application*** |

PYTHON CODE:

import wiotp.sdk.device

import time

import os

import datetime

import ramdom

myConfig = {

"identity": {

"orgid": "p62hjr"

"typeId": "NodeMCU"

"deviceId": "12345"

},

"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=radom.randint(0,100)

myData=('Soil moisture': soil, 'temperature': temp, 'humidity':hum)

client.publishEvent (eventId="status", myData)

time.sleep(2)

client.commandCallback = myCommandCallback

client.disconnect