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

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| Date | 17th November 2022 |
| Team ID | PNT2022TMID37736 |
| Project Name | Real-Time River Water Quality Monitoring and Control System |

PROGRAM :

import wiotp.sdk.device import time

import os import datetime import random myConfig = { "identity": {

"orgId": "hjSfmy", "typeId": "Devicelk", "deviceId": "67890"

},

"auth": {

"token": "87654321"

}

}

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 ()