

Team ID	PNT2022TMID54276
Project Name	Project – Signs With Smart connectivity for better road safety

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#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity":
    {
        "orgId": "ez878z",
        "typeId": "TestDevice1",
        "deviceId": "0001"
    },
    "auth":
    {
        "token": "GvaRudh_08"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if(m=="LIGHT ON"):
        print("*****//LIGHTS ARE ON//*****")
    elif(m=="LIGHT OFF"):
        print("*****//LIGHTS ARE OFF//*****")
    ##else:
        ##print("*****//WRONG COMMAND//*****")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s" % myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()

```

Program to get Temperature and humidity values randomly and publish it in IBM Cloud and also Controlling the Lights by button:

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    "orgId": "ez878z",

    "typeId": "TestDevice1",

    "deviceId": "0001"

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"auth":

{

    "token": "GvaRudh_08"

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}

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def myCommandCallback(cmd):

    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])

    m=cmd.data['command']

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client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)

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while True:

    temp=random.randint(-20,125)

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

client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)

print("Published data Successfully: %s", myData)

client.commandCallback = myCommandCallback

time.sleep(2)

client.disconnect()
```