

PUBLISH DATA TO THE IBM CLOUD

<u>Date</u>	09 November 2022
<u>Team ID</u>	PNT2022TMID00948
<u>Project Name</u>	Signs with Smart Connectivity for Better Road Safety

Signs with smart connectivity for Better road safety

```
publish.py - E:/IBM/Others/Develop a python script/publish.py (3.6.5)
File Edit Format Run Options Window Help

#Through python coding we are going to access the subscriber
import paho.mqtt.client as paho
import time
import random

def on_publish(client, userdata, mid):
    print("Publish the data ")

client = paho.Client()
client.on_publish = on_publish
client.connect('broker.mqttdashboard.com', 1883)
client.loop_start()
while True:
    temp = random.randint(1,30)
    (re,mid) = client.publish('iottopic',str(temp),qos=1)
    print(temp)
    time.sleep(10)
```

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Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MS
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subscribe.py - E:/IBM/Others/Develop a python script/subscribe.py (3.6.5)
File Edit Format Run Options Window Help

import paho.mqtt.client as paho
def on_subscribe(client,userdata,mid,grated_qos):
    print("subscriber:" + str(mid)+str(granted_qos))

def on_message(client,userdata,msg):
    print(msg.topic + " " + str(msg.qos) + " " + str(msg.payload))

client = paho.Client()
client.on_subscribe = on_subscribe
client.on_message = on_message
client.connect('broker.mqttdashboard.com', 1883)
client.subscribe('iottopic',qos=1)
client.loop_forever()
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
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1 Simulation running

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Getting started 10 min

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Getting started 15 min

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21:11 07-11-2022

IBM Watson IoT Platform

avinashyeddadanapalli01@gmail.com
ID: gmybrq

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Device Simulator

Add Device

Device ID	Status	Device Type	Class ID	Date Added
weather_Avi	Disconnected	Weather-Device	Device	Nov 7, 2022 6:32 PM

1 Simulation running

Items per page 50 | 1-1 of 1 item

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Weather_Avi_monitoring

Add New Card Settings

Line chart

5 minutes now

Temperature

1 Simulation running

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Program :

#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

```

import time

import random

myConfig = {
    "identity": {
        "orgId": "hj5fmy",
        "typeId": "NodeMCU",
        "deviceId": "12345" },
    "auth": { "token": "12345678" }
}

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

```