

(Publish data to IBM cloud)

Team ID	PNT2022TMID30849
Project Name	Industry-specific intelligent fire management system

Industry-specific intelligent fire management system

The screenshot displays a Python IDE with a script titled 'publish.py' and its execution output in a separate window.

Script Content (publish.py):

```
#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.Mqttddashboard.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)
```

Execution Output (Python 3.6.5 Shell):

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MS
C v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more informatio
n.
>>>
===== RESTART: E:/IBM/Others/Develop a python script/
publish.py =====
7
Publish the data
19
Publish the data
10
Publish the data
```

```
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('lottopic',qos=1)
client.loop_forever()
```

```
Python 3.6.5 Shell
Publish the data
13
Publish the data
3
Publish the data
25
Publish the data
19
Publish the data
2
Publish the data
7
Publish the data
9
Publish the data
```

IBM Watson IoT Platform

lrlttd.internetofthings.ibmcloud.com/dashboard/devices/browse

IBM Watson IoT Platform

vjaeece@gmail.com
ID: lrlttd

Browse Action Device Types Interfaces

Add Device +

Ece Disconnected Aishu Device Nov 13, 2022 6:54 PM

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	{"randomNumber":87}	json	a few seconds ago
event_1	{"randomNumber":19}	json	a few seconds ago
event_1	{"randomNumber":37}	json	a few seconds ago
event_1	{"randomNumber":31}	json	a few seconds ago
event_1	{"randomNumber":92}	json	a few seconds ago

1 Simulation running

Type here to search

19:23
13-11-2022



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()
```