Publish the data to IBM Cloud

Date	13 November 2022
Team ID	PNT2022TMID54421
Project Name	Signs with Smart Connectivity for Better Road Safety

Python code to access subscriber:

```
import paho.mqtt.client as paho

import time

import random


def on_publish(client,userdata,mid):

    print("published")


client=paho.Client()

client.on_publish=on_publish

client.connect("broker.mqttdashboard.com",1883)

client.loop_start()


while True:

    tem=random.randint(1,100)

    (rc,mid)=client.publish('ibm1',str(tem),qos=1)

    print(tem)

    time.sleep(10)


import paho.mqtt.client as paho

def on_subcribe(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()

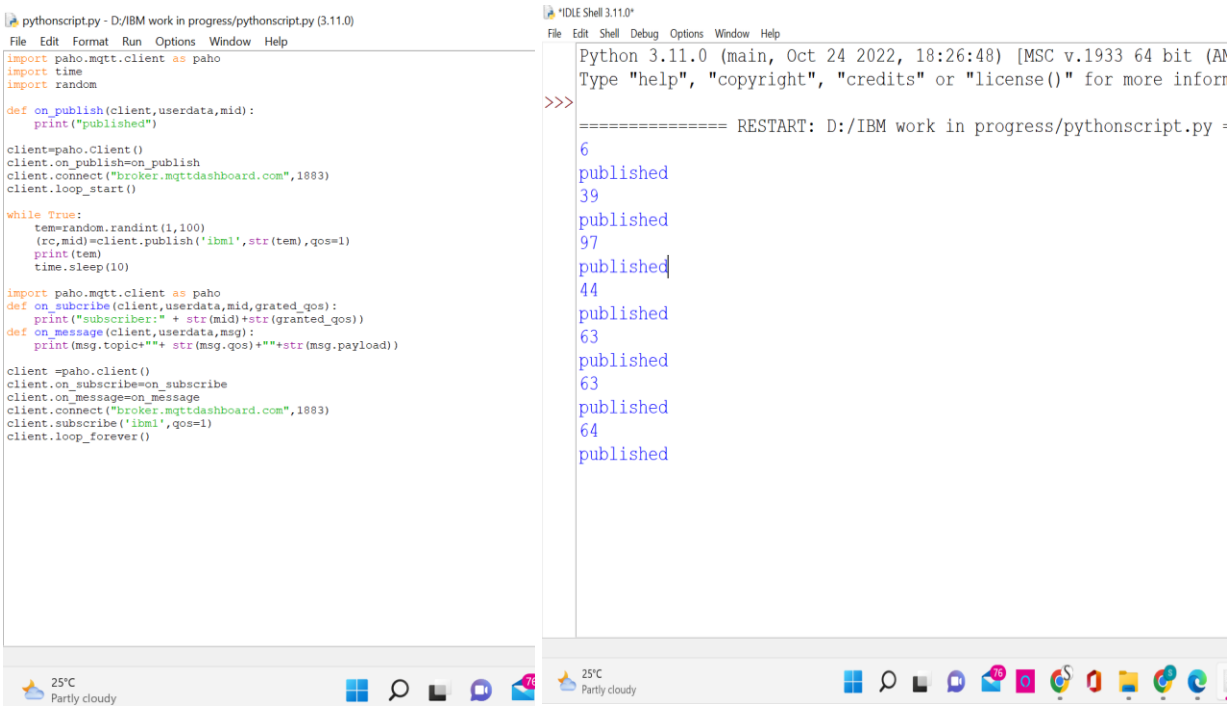
client.on_subscribe=on_subscribe

client.on_message=on_message

client.connect("broker.mqttdashboard.com",1883)

client.subscribe('ibm1',qos=1)

client.loop_forever()



PROGRAM:

#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {

"identity": {

```
"orgId": "gsqz5f",
"typeId": "NANDY",
"deviceId":"12345" },
"auth": { "token": "9876543210" }
}
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()
```

```
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