Siwar chebbi

Publisher.py :

```python
import random
import time
import paho.mqtt.client as mqtt_client

broker = 'broker.hivemq.com'
port = 1883
topic = "security/gaz"

# generate client ID with pub prefix randomly
client_id = f'python-mqtt-{random.randint(0, 1000)}'
username = ''
password = ''

def connect_mqtt():
    def on_connect(client, userdata, flags, rc):
        if rc == 0:
            print("Connected to MQTT Broker!")
        else:
            print("Failed to connect, return code %d\n", rc)

    client = mqtt_client.Client(client_id)
    client.username_pw_set(username, password)
    client.on_connect = on_connect
    client.connect(broker, port)
    return client


def publish(client):
    while True:
        time.sleep(3)
        msg = f'{random.randint(0, 10000)}'
        client.publish(topic, msg)
        print(f"Send `{msg}`ppm to topic `{topic}`")

#===Main===
client = connect_mqtt()
client.loop_start()
```

```
publish(client)
```

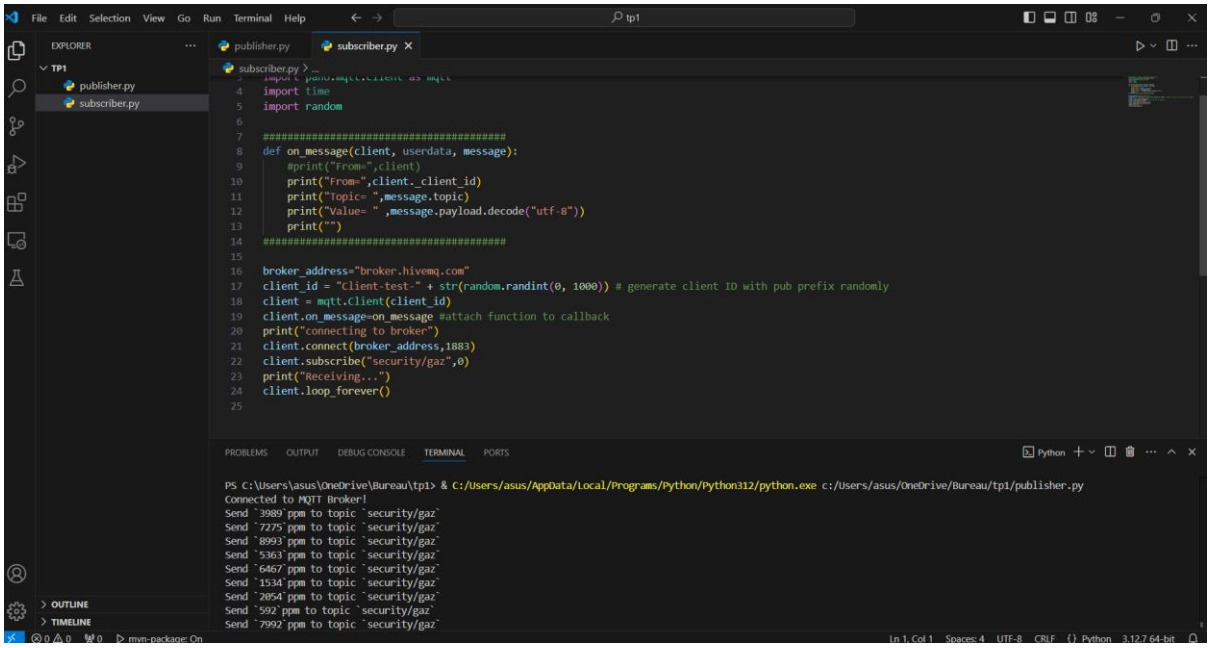
Subscriber.py :

```
#Sami MELKI (c) 2023 : Subscriber (Version 2)
########################################
import paho.mqtt.client as mqtt
import time
import random

########################################
def on_message(client, userdata, message):
    #print("From=",client)
    print("From=",client._client_id)
    print("Topic= ",message.topic)
    print("Value= " ,message.payload.decode("utf-8"))
    print("")
########################################

broker_address="broker.hivemq.com"
client_id = "Client-test-" + str(random.randint(0, 1000)) # generate client ID
with pub prefix randomly
client = mqtt.Client(client_id)
client.on_message=on_message #attach function to callback
print("connecting to broker")
client.connect(broker_address,1883)
client.subscribe("security/gaz",0)
print("Receiving...")
client.loop_forever()
```

Résultat :


File Edit Selection View Go Run Terminal Help
tp1
EXPLORER
TP1
publisher.py
subscriber.py
import time
import random
def on_message(client, userdata, message):
print("From=",client._client_id)
print("Topic= ",message.topic)
print("Value= " ,message.payload.decode("utf-8"))
broker_address="broker.hivemq.com"
client_id = "Client-test-" + str(random.randint(0, 1000)) # generate client ID with pub prefix randomly
client = mqtt.Client(client_id)
client.on_message=on_message #attach function to callback
print("connecting to broker")
client.connect(broker_address,1883)
client.subscribe("security/gaz",0)
print("Receiving...")
client.loop_forever()
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\asus\OneDrive\Bureau\tp1> & C:/Users/asus/AppData/Local/Programs/Python/Python312/python.exe c:/Users/asus/OneDrive/Bureau/tp1/publisher.py
Connected to MQTT Broker!
Send `3989` ppm to topic `security/gaz`
Send `7275` ppm to topic `security/gaz`
Send `8993` ppm to topic `security/gaz`
Send `5363` ppm to topic `security/gaz`
Send `6467` ppm to topic `security/gaz`
Send `1534` ppm to topic `security/gaz`
Send `2054` ppm to topic `security/gaz`
Send `592` ppm to topic `security/gaz`
Send `7992` ppm to topic `security/gaz`
OUTLINE
TIMELINE