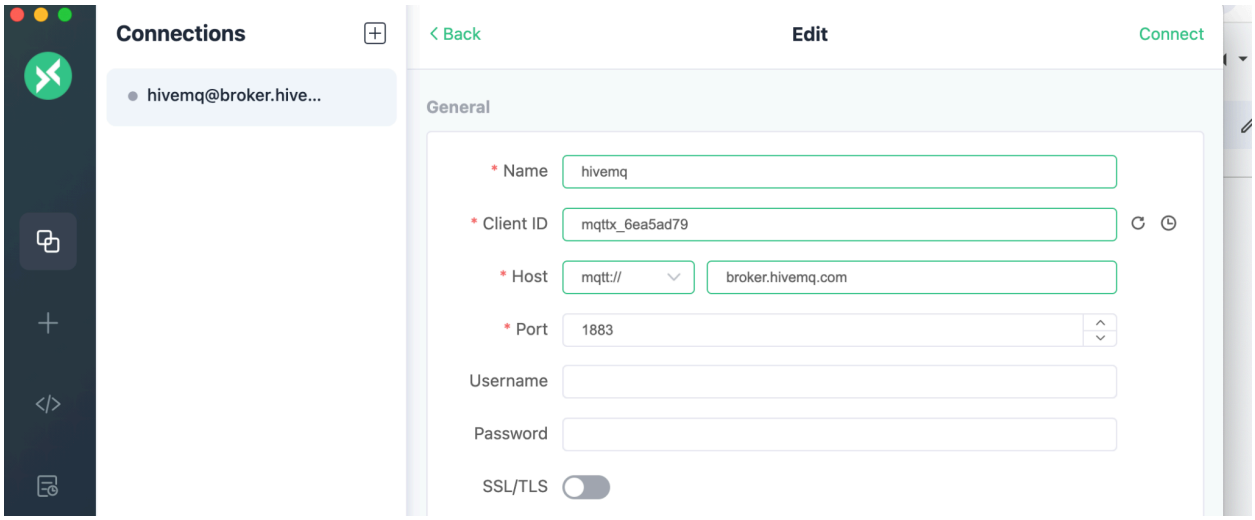
Lab work #3 MQTT app paho

Task: create a basic MQTT app, that would be running using paho mqtt python package

Examples:
https://medium.com/python-point/mqtt-basics-with-python-examples-7c758e605d4

Workflow:

1. Install MQTTx app https://mqttx.app/downloads
2. Add MQTTx client correct MQTT broker server details (below)



3. Create mqtt python code, below:

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

def connect_broker(broker_address, client_name):
    client = mqtt.Client(client_name)
    client.connect(broker_address)
    time.sleep(1)
    client.loop_start()

    return client

if __name__ == "__main__":
    server = "broker.hivemq.com"
    client_name = "tester"
    client = connect_broker(server, client_name)
    try:
        while True:
            message = input('Send some random message:')
            client.publish("temperature",message)
    except KeyboardInterrupt:
        client.disconnect()
        client.loop_stop()

```

4. In similar way try to add subscriber option instead of publishing so you would be able to receive the messages from MQTTx that you are sending