import paho.mqtt.client as mqtt

import ssl

# MQTT Broker Configuration

mqtt\_broker = "iot.example.com"

mqtt\_port = 8883

mqtt\_username = "username"

mqtt\_password = "password"

mqtt\_ca\_cert = "/path/to/ca.crt"

mqtt\_client\_cert = "/path/to/client.crt"

mqtt\_client\_key = "/path/to/client.key"

# MQTT Client Configuration

mqtt\_client = mqtt.Client("iot-client")

mqtt\_client.tls\_set(ca\_certs=mqtt\_ca\_cert,

certfile=mqtt\_client\_cert,

keyfile=mqtt\_client\_key,

cert\_reqs=ssl.CERT\_REQUIRED,

tls\_version=ssl.PROTOCOL\_TLSv1\_2)

# Callback function for successful MQTT connection

def on\_connect(client, userdata, flags, rc):

print("Connected with result code " + str(rc))

# Subscribe to MQTT topics

client.subscribe("iot/temperature")

client.subscribe("iot/humidity")

# Callback function for MQTT messages

def on\_message(client, userdata, message):

print("Received message on topic " + message.topic + " with payload " + message.payload)

# Set the callback functions

mqtt\_client.on\_connect = on\_connect

mqtt\_client.on\_message = on\_message

# Connect to MQTT broker

mqtt\_client.connect(mqtt\_broker, mqtt\_port, 60)

# Start the MQTT loop

mqtt\_client.loop\_forever()

```