MQTT CLIENT—

import paho.mqtt.client as mqtt

# MQTT Callback

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

print(f"Connected with result code {rc}")

client.subscribe("sensor/data")

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

print(f"Message received: {msg.payload.decode()}")

client = mqtt.Client()

client.on\_connect = on\_connect

client.on\_message = on\_message

client.connect("mqtt.eclipse.org", 1883, 60)

client.loop\_forever()

MQTT PUBLISHER—

import network

import time

from umqtt.simple import MQTTClient

# Set up WiFi

wifi = network.WLAN(network.STA\_IF)

wifi.active(True)

wifi.connect('your\_wifi', 'your\_password')

while not wifi.isconnected():

time.sleep(1)

# MQTT

mqtt\_client = MQTTClient("esp32", "mqtt.eclipse.org")

mqtt\_client.connect()

while True:

mqtt\_client.publish("sensor/data", "Temperature: 22.5°C")

time.sleep(10)