import machine

import dht

import time

import network

import urequests

# Konfigurasi WiFi

SSID = "LAB 2"

PASSWORD = "bersahaja"

# Konfigurasi Flask API

FLASK\_URL = "http://192.168.0.100:6000/send\_data"

# Koneksi ke WiFi

def connect\_wifi():

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

wlan.active(True)

wlan.connect(SSID, PASSWORD)

while not wlan.isconnected():

pass

print("WiFi Connected!", wlan.ifconfig())

# Inisialisasi sensor DHT11 di pin D5

sensor = dht.DHT11(machine.Pin(15))

connect\_wifi()

while True:

try:

sensor.measure()

suhu = sensor.temperature()

kelembaban = sensor.humidity()

print(f"Suhu: {suhu}°C | Kelembaban: {kelembaban}%")

# Membuat data JSON

payload = {"temperature": suhu, "humidity": kelembaban}

# Mengirim data ke Flask API

response = urequests.post(FLASK\_URL, json=payload)

print("Response:", response.text)

response.close()

except OSError as e:

print("Gagal membaca sensor!", e)

time.sleep(5)