DATE: 2 JULY 2025   **DAY: WEDNESDAY**

DAY 9 — ESP32 Local Web Server

LEARNING OBJECTIVES:-

- Create a web server using ESP32 WebServer library.
- Serve HTML pages locally on the network.

Overview:-

Day 9 introduced embedded web hosting by creating a local web server on ESP32. The server displayed real-time sensor data and refreshed values using AJAX.

Activites:-

- Designed simple HTML page stored on ESP32.
- Added JavaScript auto-refresh for sensor values.

Insights:-

- Understood memory limitations of embedded servers.
- Learned local webpage hosting techniques.