Training Day 16 Report:

Date: 16 *July,2025(Wednesday)*

Location:*PG Block HPC Lab*

Topics Covered:

- ESP32, DHT22, L298N and Motor Wiring—Breadboard Prototype
- Test Connections

Tools / Platforms Used:

- ESP32 board
- DHT22 sensor
- L298N motor driver
- Breadboard, jumper wires, DC gear motors

Tasks Performed:

➢ Connected all electronic components (ESP32, DHT22, L298N, motors) on a breadboard for rapid prototyping.

➢ Double-checked all pinouts and wiring based on datasheets and diagrams.

➢ Programmed ESP32 to read sensor data and control motors for sun-tracking movement.

➢ Verified each connection for correct operation, no shorts.

Project Work:

- Live-tested working sensor+motor system with sunflower petal platform.
- Checked sensor readings via serial monitor and motor control via simple movement test.

Reflections:Handling hardware and code at once felt challenging, but seeing the breadboarded sunflower "come alive" with data and motion was a reward in itself.