PIN CONNECTION EXP03:

**1. Ultrasonic Sensor to ESP32:**

* **Trig Pin (Ultrasonic Sensor) ↔ GPIO 5 (ESP32)**: The trigger pin of the ultrasonic sensor is connected to GPIO 5 on the ESP32.
* **Echo Pin (Ultrasonic Sensor) ↔ GPIO 18 (ESP32)**: The echo pin of the ultrasonic sensor is connected to GPIO 18 on the ESP32.
* **VCC (Ultrasonic Sensor) ↔ 5V (ESP32)**: The ultrasonic sensor is powered by 5V from the ESP32.
* **GND (Ultrasonic Sensor) ↔ GND (ESP32)**: Ground connection between the sensor and ESP32.

**2. OLED Display (SSD1306) to ESP32:**

* **SDA (Display) ↔ GPIO 21 (ESP32)**: The I2C data pin (SDA) from the OLED display is connected to GPIO 21 on the ESP32 (I2C SDA pin).
* **SCL (Display) ↔ GPIO 22 (ESP32)**: The I2C clock pin (SCL) from the OLED display is connected to GPIO 22 on the ESP32 (I2C SCL pin).
* **VCC (Display) ↔ 3V3 (ESP32)**: Power the OLED display using the 3.3V pin of the ESP32.
* **GND (Display) ↔ GND (ESP32)**: Connect the ground pin of the OLED display to the ground pin of the ESP32.