

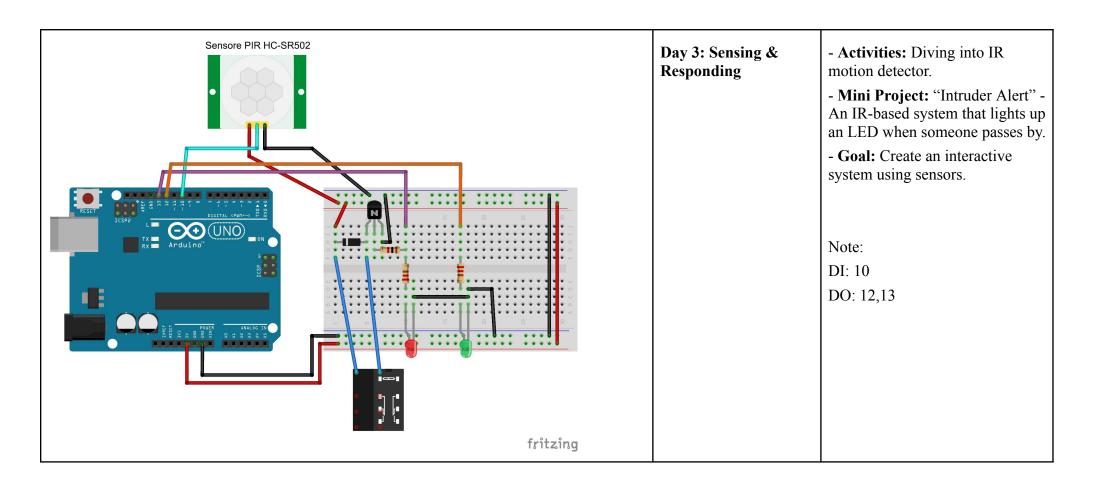
Day 2: Arduino Mastery Begins

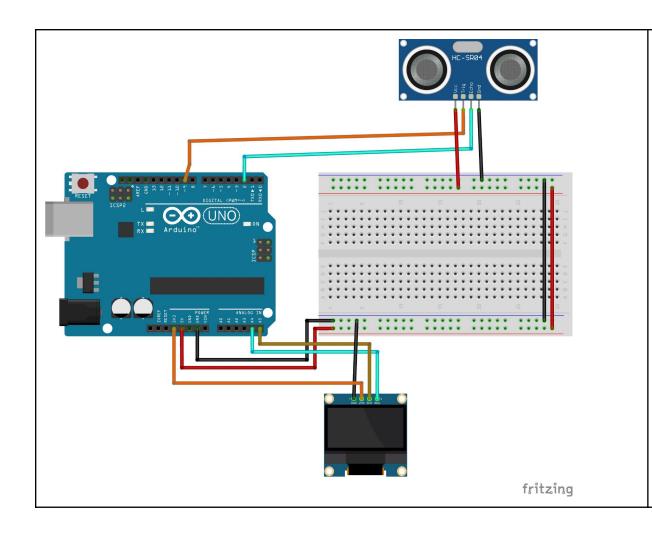
- Activities: Advanced capabilities of Arduino.
- Mini Project: "Interactive Light Dimmer" - A potentiometer-controlled light dimmer using Arduino.
- **Goal:** Use Arduino for a real-world application.

Note:

DO: 8 (PWM)

AI: 0 (Analog Input)





## Day 4: See What You Sense

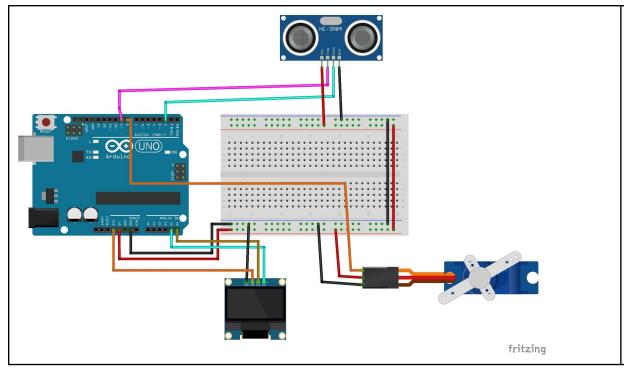
- **Activities:** Learning the LCD's workings.
- Mini Project: "Distance Alert Display" - Use the sonar sensor to display distance from an object on the LCD.
- **Goal:** Integrate sensing and display.

Note:

DI: 9 (Interrupt)

DO: 2

I2C: A4(SDA), A5(SCL)



## Day 5: The Art of Motion

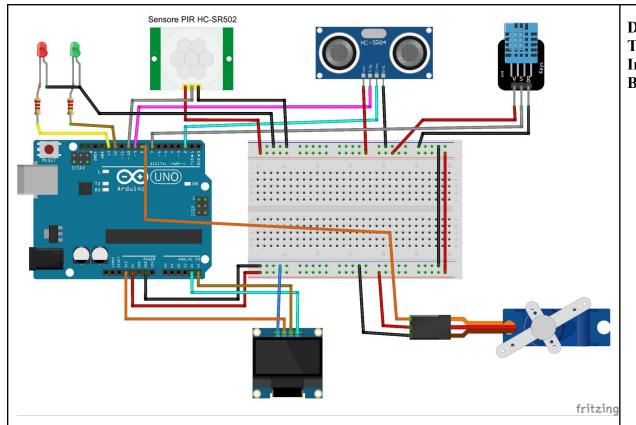
- **Activities:** Diving deeper into servo mechanisms.
- Mini Project: "Echo Location Head" - Attach sonar to servo, making it turn towards the closest object detected.
- **Goal:** Achieve advanced interactivity with motion and sensing.

Note:

DI: 9 (Interrupt)

DO: 2, 8 (PWM)

I2C: A4(SDA), A5(SCL)



Day 6: Building Towards the Interactive Plant Buddy

- Activities: Start integrating learned components.
- Mini Project: "Plant's Health Monitor" - Combining DHT11, LCD, and servo to create a system that shows plant's environment status and waves a flag if conditions aren't ideal.
- **Goal:** Lay the groundwork for the final project.

Note:

DI: 7,9 (Interrupt), 10

DO: 2, 8 (PWM), 12,13

I2C: A4(SDA), A5(SCL)