## Conclusion

- 1. Displaying Current Room Temperature on 16x2 LCD Display:
  - ➤ A View current room temperature on 16x2 LCD screen
  - > Utilize a temperature sensor to measure the room temperature.
  - ➤ Measure room temperature with thermometer. Immediately observe the sensor's output.
- 2. Rotating Servo Motor Based on Potentiometer Value:
  - Connect a potentiometer to the Arduino to provide variable input.
  - ➤ Program the Arduino to read the potentiometer value and control the servo motor's rotation angle accordingly.
  - > This experiment demonstrates the use of analog input to control the position of a servo motor.
- 3. Rotating Servo Motor Based on Current Room Temperature:
  - Measure the room temperature using a sensor.
  - > Map the temperature values to servo motor positions.
  - Adjust the servo motor's rotation based on the current room temperature.
  - ➤ This experiment combines sensor data with actuator control to create a temperature- responsive system.

Together, these experiments demonstrate the effectiveness of Arduino in interacting with sensors, outputting data, and controlling actuators.