In this practical experiment, we successfully integrated several components with Arduino to accomplish various tasks related to temperature monitoring and actuator control.

Firstly, we employed a 16x2 LCD display to showcase real-time room temperature obtained from a DHT temperature sensor. This provided conventient visual representation of the environmental condition.

Secondly, we utilized a potentiometer to control to position of a servo motor. By mapping the analog input from the potentiometer to the servo motor’s angular position, we enabled manual control over its movement, control though user input.

Through this experiment, we gained practical insights into Arduino programming sensor interfacing and actuator control.