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Interfacing Temperature Sensor and LCD with Arduino UNO for making a Digital Thermometer

This project is a **digital thermometer** built using an **Arduino Uno**, an **analog temperature sensor (e.g., LM35 or TMP36)**, a **16x2 LCD display**, and optionally a **potentiometer** to adjust the LCD contrast. The sensor reads the ambient temperature as an analog voltage, which is then converted to a **temperature value in Fahrenheit**. The Arduino processes this data and displays the real-time temperature on the LCD screen. This project is ideal for **basic temperature monitoring** and learning how to interface **sensors and displays** with Arduino.