

Lab 3. LCD Display

02/10/2024

0/15 Points

Attempt 1



Review Feedback

Offline Score:

0/15

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Anonymous Grading: **no****Unlimited Attempts Allowed**

▼ Details

LCD Display

Hardware Required

- Arduino Board
- LCD Screen (compatible with Hitachi HD44780 driver)
- pin headers to solder to the LCD display pins
- 10k ohm potentiometer
- 220 ohm resistor
- hook-up wires
- breadboard

Circuit

Before wiring the LCD screen to your Arduino board we suggest to solder a pin header strip to the 14 (or 16) pin count connector of the LCD screen, as you can see in the image above. To wire your LCD screen to your board, connect the following pins:

- LCD RS pin to digital pin 12
- LCD Enable pin to digital pin 11
- LCD D4 pin to digital pin 5
- LCD D5 pin to digital pin 4
- LCD D6 pin to digital pin 3
- LCD D7 pin to digital pin 2

Additionally, wire a 10k pot to +5V and GND, with it's wiper (output) to LCD screens VO pin (pin3). A 220 ohm resistor is used to power the backlight of the display, usually on pin 15 and 16 of the LCD connector

Wiring Diagram



<http://www.arduino.cc/en/Tutorial/LiquidCrystalDisplay>

Note:

You can also find this code on Arduino's IDE. Go to file / Examples /Liquid Crystal/Display

<http://www.arduino.cc/en/Tutorial/LiquidCrystalDisplay>

✓ View Rubric

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Criteria	Ratings					Pts
Description of criterion view longer description	5 pts Well done!	3 pts Close The implementation slightly differs from the instructions.	2 pts Getting There The implementation shows two slight differences or one larger difference from the implementation.	1 pts Needs Improvement The implementation differs in significant ways from the instructions.	0 pts Insufficient The circuit is missing or it shows little resemblance with the instructions.	/ 5 pts
	Output view longer description	10 pts Well done!	0 pts Differs from expected output			

Total Points: 0

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