Lab 5. LED Bar Graph
04/11/2024

Missing **0/15** Points

Attempt 1 ⌄   ◯ Review Feedback

Offline Score:
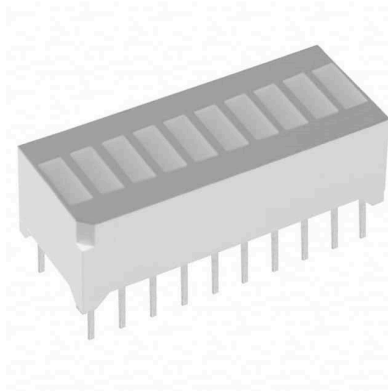**0/15**

🗨 Add Comment

Anonymous Grading: **no**

Unlimited Attempts Allowed

⌄ Details

The bar graph - a series of LEDs in a line, such as you see on an audio display - is a common hardware display for analog sensors. It's made up of a series of LEDs in a row, an analog input like a potentiometer, and a little code in between. You can buy multi-LED bar graph displays fairly cheaply, like **this one** ⮕ **(http://www.digikey.com/product-detail/en/MV54164/1080-1183-ND/2675674)**. This tutorial demonstrates how to control a series of LEDs in a row, but can be applied to any series of digital outputs.

This tutorial borrows from the **For Loop and Arrays** ⮕ **(https://www.arduino.cc/en/Tutorial/Loop)** tutorial as well as the **Analog Input** ⮕ **(https://www.arduino.cc/en/Tutorial/BuiltInExamples/AnalogInput)** tutorial.

http://www.arduino.cc/en/Tutorial/BarGraph ⮕ **(http://www.arduino.cc/en/Tutorial/BarGraph)**
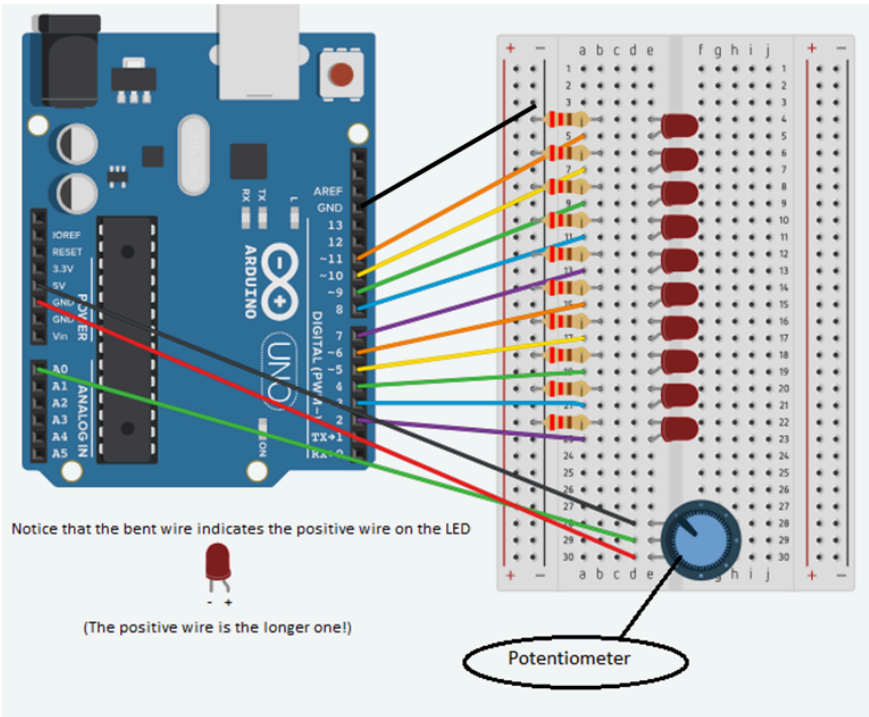

Hardware Required

- Arduino Board

- LED bar graph display or 10 LEDs

- Potentiometer

- 10 220 ohm resistors

- hook-up wires

- breadboard

Circuit

Notice that the bent wire indicates the positive wire on the LED

(The positive wire is the longer one!)

- +

Potentiometer

Code:

barGraph.ino **(https://slcc.instructure.com/courses/1004604/files/165676767?wrap=1)** ↓
(https://slcc.instructure.com/courses/1004604/files/165676767/download?download_frd=1)

Submission:

Submit the video recording

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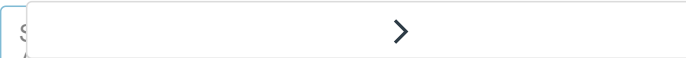
Lab 5. Lab Bar Graph

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**			/ 10 pts
					Total Points: 0	

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Assignment

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