

EE2905 Lab 2: Output

Objectives

- Develop simple breadboard circuits
- Interface to LEDs
- Print to a console

Prelab

- Review the [Printing Text](#) and [Printing Variables](#) slides
- Review the [Creating Delays](#) slides
- Review the [Digital Outputs](#) slides
- Review the [LED Basics](#) and [Resistor Values](#) slides

student
check off

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Assignment

- **Do not start the assignment portion of the lab before the lab class. We will walk through the first part of the lab.**

Part 1: Modify the LED design we created at the beginning of lab to use three LEDs. Program your system to emulate a stop light pattern. Print the status (go, caution, stop) to the console on a new line each time.

Part 2: Create a program that increments a variable of type `int8_t` and a variable of type `uint8_t` by 10 every half-second. Print the values to the console. Prepare to explain the results from the program.

Check Off

- Demo and document your stop light program 40%
- Demo and document your counting program 50%
- Explain the results of part 2 10%

Checkoff due by beginning of Lab 3 class (in-person or via Teams chat)

Informal Lab Report: flow diagram(2), code(2), schematic, and an explanation of the results of Part 2 - due beginning of Lab 3.