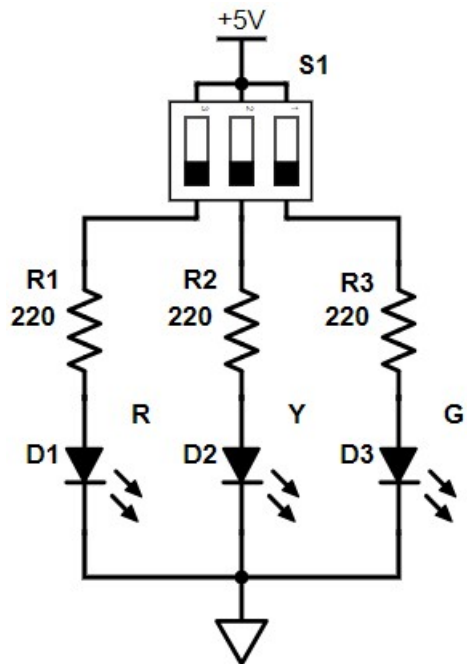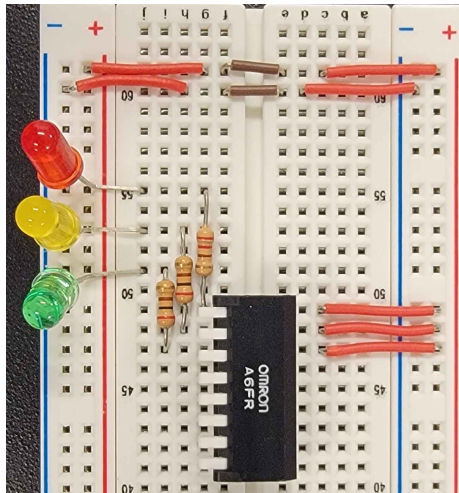# ECE09402 Project 1A - Aidan Sharpe

Project Overview

This project introduces basic breadboarding concepts including the orientations of power rails and terminal strips and the best practices of component layout. Through this project, we also practiced reading resistor codes, reading schematics, and correctly orienting LEDs, which are polarized devices.
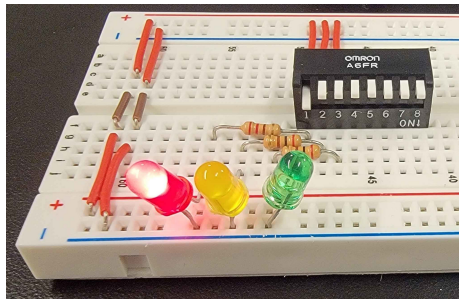
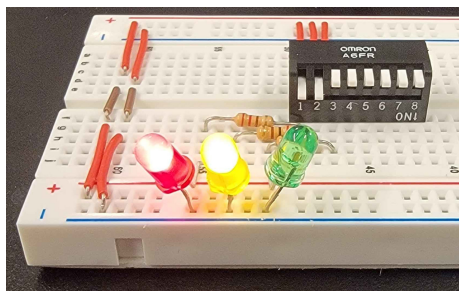We were provided with the schematic below.

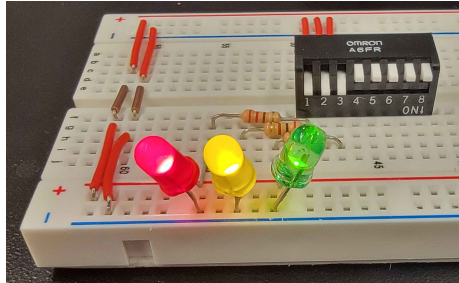All switches in "off" position; no LEDs on. This angle makes seeing the wiring layout easier.

Switch 1 in "on" position; red LED on. This angle makes seeing the state of the switches easier.

Switches 1 and 2 in "on" position; red and yellow LEDs on.

Switches 1, 2, and 3 in "on" position; red, yellow, and green LEDs on.

Key Takeaways

I was successfully able to complete all the goals set forth in the project overview. Through this exercise, I also learned that bending the pins outward on the DIP switch makes it stay in better. Additionally, I found that although the wires in the kits are pre-cut to helpful sizes, there is only one color for each size. In the future, for organizational purposes, I plan to cut wire from the spools in the back of the labs to keep consistent color for the same path or sub-circuit.