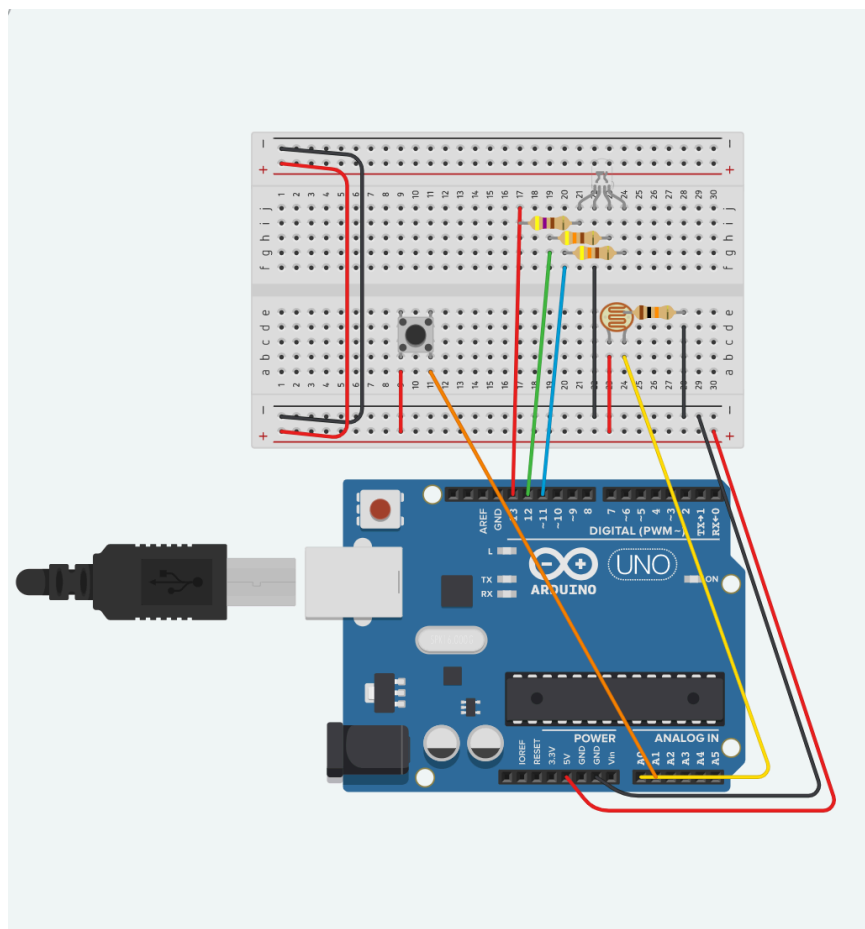Reilly Brown
4/7/20

**Project 2 - Real World Input and Output**

This project was quite difficult for me. We were instructed to use two input and two output devices. Originally I had planned to create a variation of a timer that flashed red, green and blue, outputted audio and shut off when a hand was waved over it. That being said, that idea proved to be a lot more difficult than I had anticipated. So, I decided to still use an RGB LED, however, for my inputs I used a button and an ldr. Getting the RGB LED to work the way I wanted with button pushes was easy, however the sensor was very difficult and time consuming for me to sort out. I knew my wiring was correct so I decided to reorganize my code using state machines and the sensor began to work, just not how I originally intended.

What I ended up with was an RGB LED that toggles between colors on a button push and when a finger is waved over the sensor. Overall, I am happy with the progress I made throughout working on this project and, although I did not achieve my original goal, I was able to improvise and meet the requirement.

int state = 1

int red state = 1

int greenstate = 2

int blue State = 3

\* toggle btwn states w/
button press or by
activating sensor

RGB LED



12 27 33

3V  G  4O  AI

ldr

pushbutton