**Day 14 Notes**

Example Circuit

A circuit board with many wires

Description automatically generated

My Circuit

A circuit board with many wires

Description automatically generated

 \* IMPORTANT NOTE: The wiring for this sketch builds on the Day 13 wiring. But the

 \*                 addition of the RGB LED requires us to MOVE some of the Day 13

 \*                 wires.  This is because the RGB LED only works when connected to

 \*                 pins that support Pulse Width Modulation (PWM).  HERO pins that

 \*                 support PWM have a tilde ('~') preceeding their pin numbers.

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 \*                 If you look at the Day 13 diagrams you see that we used PWM pins

 \*                 for the keypad and buzzer, leaving only one available.  Pins 12

 \*                 and 13 are still available so we'll move the wires on pins 9 and 10

 \*                 (PWM pins) to 12 and 13.

 \*

 \*                 Pin 13 is also used while the Arduino IDE is uploading sketches, and

 \*                 if you connect the buzzer to THAT pin you get noise every time you

 \*                 upload a new sketch (try it!).  So the buzzer will now be on pin 12

 \*                 and the keypad wire on pin 9 will move to pin 13.

 \*

 \*                 Because we used constants, we only need to make two small changes

 \*                 from the Day 13 sketch instead of hunting down and changing each use.