**Assignment 5.2: Report**

Brandon Michelsen

**YouTube Links:**

<https://www.youtube.com/watch?v=zOcwLwgmM0Q>

**Description:**

This lab was an expansion of Lab 5.1.2. In it, we took the Pentatonic keyboard we built in Lab 5.1 and added an extra key. This key allowed us to change the octave of the note being played. When the key was held down, the notes all went to the lowest octave (Octave 1). If the button was pressed and released before any other keys were released, the notes would increment by one octave. I adjusted the lab assignment so that the notes can increment through five octaves. The base (default) octave is Octave 2. By holding down the key, the notes drop to Octave 1. Each press of the button increments the octave by one, cycling through Octaves 3, 4, and 5 and finally back down to 2. Every time the key is held down, it drops to Octave 1.