

## Lab 7 Report

In this lab, we were introduced to the PWM on PORT B6. This lab was very straightforward compared to the previous lab. In this lab, we basically set the PWM to different values and then executed our state machine with the timer. The first part required us to play three sounds each mapped to 3 buttons. The second part made us play 8 sounds starting from the lowest to the highest when we pressed buttons to go up and down. The last part made us make a 5 second song using the PWM frequencies. This lab was very easy, and the only problem we encountered was that we had to remove the wiring to PORT B6 when we programmed the microcontroller. We didn't know this and we ran into problems of it not programming. Once we realized our mistake, the lab was very straightforward and we finished in the allotted time. In this lab, Abraham did all the coding, and Rogelio did all the wiring.