**Functions:**

* **void initServo(void);**
  + This function initializes the Servo Motor to the correct configurations. It unlocks the pin used for the servo to set the output compare. It also initializes the Timer 3
* **void setServo(int Val);**
  + This function takes a period of 0 and PR3 and produces a Pulse-Width between 0 and PR3 .
* **void initPushButton(void);**
  + This function initializes the button with the correct configurations. It allows for the PIC to read the input and capture it using TMR2. The Input Capture is set to capture every edge. The pull up resistor is also enabled.

**Discussion:**

One thing I really struggled with was understanding the logic behind the buffer and implementing it in the code. I did not understand how the index and the pointers would ‘reset’ and update the buffer when a new value is inserted. I also had trouble calculating the time between the most recent and oldest time.

I also spent a lot of time setting up the Interrupt as I made a simple mistake when setting it up.