Group project for ECE 765 – you can work in groups of 2.

Use the Easy 68K simulator to drive the right most 2 digits of the digits display.

The digit on the left has address $E00000. Look at the help documentation for the address of the right digit.

The next to right most digit will be blanked out, i.e., all segments driven to 0.

The right digit will display each segment active sequentially. Start with the top and activate each segment clockwise. Only one segment is illuminated at a time. Then illuminate the center segment.

Then have the right digit count up all the digits 0 through 9.

Create a delay subroutine so that the sequence advances with a 2 to 5 second delay between displays. This is to be done as a subroutine.

Submit your code and screen captures as your code runs to show at least 2 different segments and 2 different digits.

The easy method, to create the screen captures, is to use breakpoints in the simulator, or simply halt it. Then do a Ctl-Alt-PrintScreen which will copy the active window to the clipboard. Paste this into a word document.