CECS 262

Lab 3: HD44780 LCD

Purpose:

The purpose of this lab is to help students learn how to interface the HD44780 LCD with the 8051

Tasks:

- 1. Connect your LCD to your 8051
- 2. Program the 8051 to display the following:

-Mode 0 [P0.0 == 0]: Display a string on the LCD Example output: "Hello World"

-Mode 1 [P0.0 == 1]: Counter that counts up every half a second from 0-99. When the Counter overflows it starts over at 0. The state of the number must be tracked.

Example output: "Counter: 00", "Counter: 001", "Counter: 99"

3. Test out other LCD functions such as turning off the display, changing the cursor position and so on...

Demo and Submission:

- Group of 2
- Due 11/16/2017, End of Lab
- Submit your zipped project to Beachboard DropBox
- One Submission per group