Debugging Lecture

In this lecture you will be working with MPLAB.

There is a file to download from the calendar. You will need to make a new project with that .c file.

You will be capturing a screen shot from Part D to show you have finished the lecture. Bring that printout and attach it to you notes to submit in class.

Panel 3

Debugging Tools

Part A: Basic Debugging Control
- Debugging toolbar
- Breakpoints
- Watch window

Part B: Instruction Cycle Stopwatch
- Changing the simulator clock frequency
- Timing C and Assembly instructions

Part C: Stimulus Inputs (MPLAB SIM only)
- Asynchronous stimulus inputs

Part D: Logic Analyzer (MPLAB SIM only)
Part B: Instruction Cycle Stopwatch

Measuring delay functions

Where in the menu is the stopwatch?

Stopwatch

Change frequency to 4 MHz

Part C: Stimulus Inputs (MPLAB SIM only)

How do you send the signal?

Part D: Logic Analyzer (MPLAB SIM only)

Include a screen shot of your Logic Analyzer

Sample screen shot. Note how my name is visible

In addition to the Logic Analyzer, get some portion of the .c file that has your name in it.

Also feel free to sneak in the watch window or stimulus generator.