Final Project: Demo Expectations

COEN 122

Demo

- Demo and report are due on Friday Week 10
- 1 submission per team

Demo: Viewing Registers in Waveform

- Under "Scope" Section, click on your register file module

- Under "Object" Section, click on the drop down icon for your registers

- Drag and drop the registers used into the waveform

- Then right-click "Run Simulation" and "Relaunch Simulation" to see the waveform updated with the values in the registers

Demo: Your Own Assembly Code

- You will be given N random numbers to test your datapath with
    - Load base and end indexes in registers
    - Show in waveform that you are getting the correct value in your register

- Needing NOPs between instructions with data dependencies or branching

  - Data dependency: requires at least 2 NOPs

  - Branching/Jumping: requires at least 3 NOPs

- Sign Extension

  - {10'b0000000000, sign_ext_in}

- Buffers should be on 1 edge and the data memory, instruction memory and reg file should be on the other edge