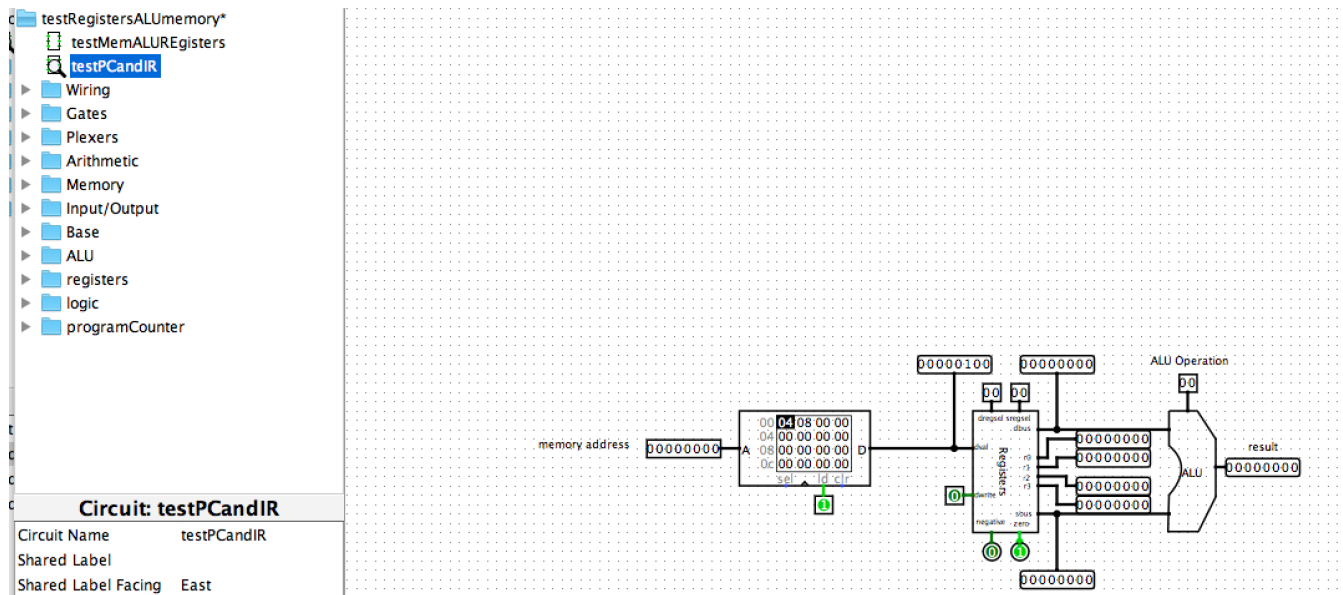


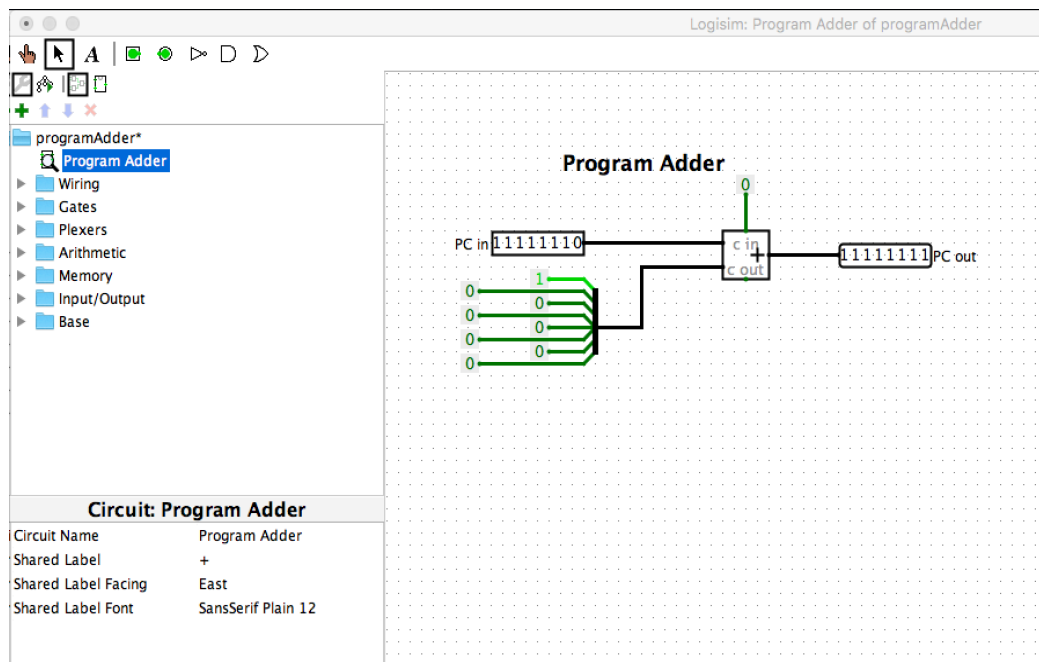
ASDV 1205, Intro to IT

Lab, Program Counter and Immediate Register

1. Open your last circuit testMemALURegisters.circ. Click Project Add Circuit. Name the circuit TestPCandIR.circ (Short for Test Program Counter and Immediate Register)
2. Go to testMemoAluRegisters.cir, select all and copy. Then paste into the newly created circuit.



3. Create a new Circuit, save it as programAdder. The circuit adds 1 to an 8-bit adder. Use the Adder (shown under Arithmetic adder and drop it in your circuit. The shared name is + .



4. Create a 4x5 chip for the Program Adder.

The screenshot shows the Logisim software interface. On the left is a component library with a tree view containing folders for Wiring, Gates, Plexers, Arithmetic, Memory, Input/Output, and Base. The main workspace is a 4x5 grid with a 4x5 chip placed in the center. The chip is a black rectangle containing a green plus sign and two blue circles representing input pins. Below the workspace is a panel titled "Circuit: Program Adder" with the following details:

Circuit: Program Adder	
Circuit Name	Program Adder
Shared Label	+
Shared Label Facing	East
Shared Label Font	SansSerif Plain 12

5. Load the library programAdder.circ into the testPCandIR.circ and put it in(FACE WEST) as shown below.

