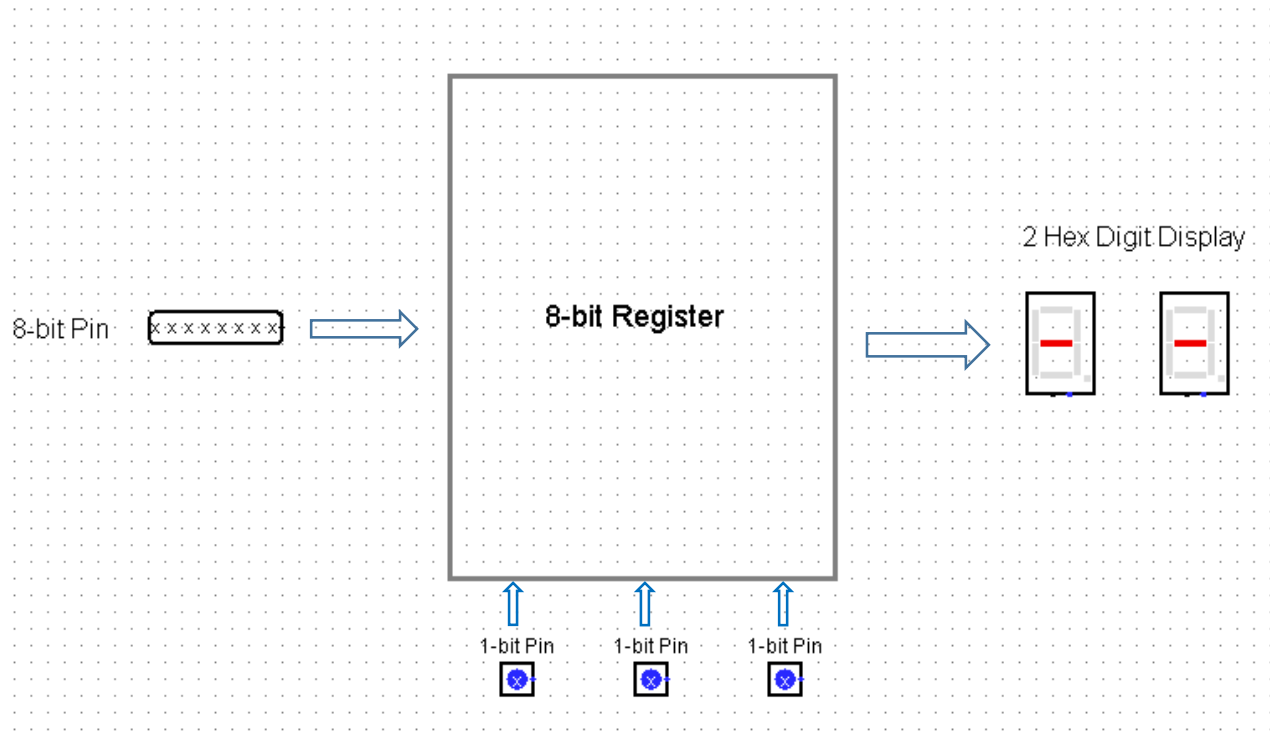# CSE4117 Microprocessors

HW1

You will construct a 8-bit register with increment & decrement in Logisim.

You have;

- 8-bit pins for input
- 2 Hex Digit Displays (DO NOT use Seven-Segment Display)
- 3 pins for LOAD, INCREMENT, DECREMENT signals (DO NOT use three-state pins)

− One of the pins is INCREMENT, the other is DECREMENT, and the remaining pin is LOAD.
− DO NOT use built-in registers in Logisim, you have to design your 8-bit register using S-R FFs provided by Logisim.
− You can use Adders and Subtractors provided by Logisim.