Homework#1

In this homework,

- 1. Realize the "simple" CPU described in class in logisim, with the following differences: Your design must have 8 registers (instead of 4), each of 12 bits (instead of 16).
- 2. Connect the output of registers into seven segment displays.
- 3. Write an assembler of this CPU.
- 4. Write a simple program and assemble it using your assembler. Then, load the resulting machine code into the memory of your design.
- 5. Load some initial values into the registers and run the program, by advancing the clock pressing control-T. See if the correct values are generated in seven segment displays.