## CMSC 240: Principles of Computer Organization

Assignment\#4
Due in class on Thursday, March 28, 2024.
Description: Write an LC-3 assembly language program to compute the minimum value stored in 10 consecutive memory locations.

## Notes:

1. You will need to store 10 random values in consecutive memory locations. You may use the values shown below. Store them starting from location x3030.
[256, 91, 345, 967, 42, 89, 12301, 32767, 695, 43]
2. Leave the minimum value found in register R1.
3. Store your program starting from memory location $\times 3000$
4. Start by writing the program in pseudocode (and/or a flowchart), choose registers for variables used in psuedocode. Encode the pseudocode in LC-3 instructions. Make generous use of comments.

## What to Hand in

Submit a stapled printout containing the following: A printout of your program (.asm file) containing the data above, a snapshot of the Simulator screen showing contents of all registers after running the program on the data file provided. A short personal reflection on the exercise.

