CPEG 422/622 Spring 2020

Homework 5

Due April 10th at midnight (through Canvas)

- 1. Show the IEEE 754 single precision representation (32-bit) of -12.375₁₀. Show your steps to receive full credit.
- 2. Follow the steps given in lecture, show the process of adding the following numbers in floating point representation: -12.375_{10} and 1.75.
- 3. Assume a clock period of 10ns, Draw the waveforms (first 50ns) of signals A, B and C. Explain the difference between " $B \le A$ " and " $C \le A$ " in the code.

