ME 766: HW 2

- No "Collaborative" effort allowed. Students are expected to work themselves.
- Its okay to discuss, but not okay to share code or ask others to code for you!!!
- Penalty for late submissions.
- Severe penalty for academic dishonesty.
- 1. Create two matrices, A and B, each of size (N × N). Initialise the matrices to random floating point numbers. Write an OpenMP code for computing C = AB and then transforming C into an upper triangular matrix. Report the times taken for the codes. Vary the size of the problem from N = 100...10000.
- 2. Now for the same problem, write an MPI code for computing C = AB and then transforming C into an upper triangular matrix. Report the times taken for the codes. Vary the size of the problem from $N = 100 \dots 10000$. Vary the number for MPI process from 2 to 8. Using a single desktop is okay.
- 3. Write a report of your results obtained. Be sure to specify the configuration of your machine and OS.