CS516: Parallelization of Programs Warm up Exercises

Due Date: 14-Jan-2023

Instructions:

- 1. Prepare your solutions in a zip file
- 2. These problems are to make you comfortable with starting to write CUDA programs.
- 3. These problems do not carry any direct marks.

Problem-1:

For given two matrices M and N both having size k*k (where k<=1024), write a CUDA program to perform M+N

Hint: Allocate M and N single dimension array having k*k elements

Problem-2:

For given two matrices M and N both having size k*k, write a CUDA program to perform M+N using threads and thread blocks. Assume the number of threads in a thread block as THREADS_PER_BLOCK