CPSC 479 Homework 5: Introduction to HPC

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Upload the program(s) on TITANIUM together with a description file (text, DOC or PDF) on how to execute it.

**Problem 1. [4 points]** Write a CUDA program to initialize an array of size 16 to all zeros in parallel using parallel threads.

**Problem 2. [2 points]** In Problem 1, change the array size to 1024.

**Problem 3. [2 points]** In Problem 2, create another kernel that adds 5\*i to array[i] in parallel using parallel threads.

**Problem 4. [4 points]** In Problem 3, change the array size to 8000. Check if the answer to problem 3 still works.