**1. CUDA Matrix Addition and Multiplication**

**2. Processors Comparison**

Select any five processors of different companies and compare the performances and parameters, such as cache memory, pipeline, etc.

**3. Benchmarking Report**

Use benchmark assigned in the class, run this benchmark, and submit a report

**4. MPI**

As discussed in the class please solve the trapezoidal rule using MPI.

**5. OpenMP (N-body)**

OpenMP (N-body)

**6. CUDA Project**

Download and CUDA code, run the code and submit a report including presentation.

**7. OpenCL - Matrix Multiplication**

Install OpenCL and compare its results on CPU and GPU, submit a report.

**8. Matrix-Matrix Multiplication using Map-Reduce (Hadoop)**

Please run the matrix-vector multiplication example on you PCs after installing Hadoop.  Also extend it to matrix-matrix multiplication. I have uploaded the code for both mapper and reducer in Python language on MS Teams.