

- 1) Write a parallel program using OpenMP to perform vector addition, subtraction, multiplication. Demonstrate task level parallelism. Analyze the speedup and efficiency of the parallelized code.
- 2) Write a parallel program using OpenMP to find sum of N numbers using the following constructs/clauses.
 - a. Critical section
 - b. Atomic
 - c. Reduction
 - d. Master
 - e. Locks
- 3) Write a parallel program using OpenMP to find factorial of N numbers using the following constructs/clauses.
 - a. Critical section
 - b. Atomic
 - c. Reduction
 - d. Master
 - e. Locks