2023-Batch-I-Set-2

Lab 6 - CSS 311 – Parallel and Distributed Computing

OpenMP – Specific Directives and Clauses

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1. Write the OpenMP program for the following clauses to understand its purpose in an application.

   a) **nowait**

   b) **private**

   c) **firstprivate**

   d) **lastprivate**

2. Write the OpenMP program for the following directives to understand its purpose in an application. Compare and Justify.

   a) **Omp master**

   b) **Omp single**

3. Write the OpenMP program for the following directives to understand its purpose in an application.

   a) **Omp critical**

   b) **Omp critical [name]**

4. Write the OpenMP program for the following clause to understand its purpose in an application.

   a) **ordered**

   b) **collapse**

5. Write the OpenMP program for the following directive to understand its purpose in an application.

   a) **Omp sections**

   b) **Omp section with nowait**

Guidelines for Writing

The following to be written in the observation book:

Clause Name:

Purpose:

Example with situation:

OpenMP Syntax:

OpenMP Code:

Output:

Inference from output: