

Assignment 2

Last date of Submission: 15/04/2023

1. Write a simple OpenMP program to demonstrate the use of 'for' clause.
 - Sum of n' array elements
 - Product of n' array elements
2. Write a program for parallel quick sort algorithm.
3. Write a program for pi calculation using openmp/mpi.
4. Write a C program to handle message passing in the MPI application interface, which allows processes to communicate with one another.
5. Create two processes that will pass the number 17 from one to the other.
6. You should first create three matrices A, B, and C then initialize A and B to some values of your choice. In your code, try to improve the performance by (re)using the same set of threads for initializing A and B and for calculating C
7. Consider two one-dimensional arrays, each of size of 5. We will then create 5 threads. Each thread will be responsible for one addition operation.
8. . Design a distributed application using Message Passing Interface (MPI) for remote computation where client submits a string to the server and server returns the reverse of it to the client.