

- 1) Write an MPI program to read 5 different numbers in the root process. Broadcast this value to 5 other process and find the cube of the given value. Finally, return these values and display them in the root process.
- 2) Write a MPI program to read 3 strings in the root process. Send these strings to three different processes. Reverse the string and toggle the letters of the string in each of the process. Finally, send this back to the root process and display the results.
- 3) Write a MPI program to read two vectors of same size n from the master process. Implement 4 process to perform element wise vector addition, vector multiplication, vector subtraction and vector division. Finally, display the results in order (Addition, subtraction, multiplication and division)