1. **Commands for Linear send/recv:**

To compile:

mpicc -o linear\_sendrcv linear\_sendrcv.c

To Run:

mpirun -n 2 --hostfile clusterhosts linear\_sendrcv(for 2 process)

mpirun -n 4 --hostfile clusterhosts linear\_sendrcv(for 4 process)

mpirun -n 8 --hostfile clusterhosts linear\_sendrcv(for 8 process)

**Commands for Tree Structured Algorithm:**

To compile:

mpicc -o tree\_algo tree\_algo.c

To Run:

mpirun -n 2 --hostfile clusterhosts tree\_algo(for 2 process)

mpirun -n 4 --hostfile clusterhosts tree\_algo(for 4 process)

mpirun -n 8 --hostfile clusterhosts tree\_algo(for 8 process)

**Commands for MPI\_Bcast:**

To compile:

mpicc -o b\_cast b\_cast.c

To Run:

mpirun -n 2 --hostfile clusterhosts b\_cast(for 2 process)

mpirun -n 4 --hostfile clusterhosts b\_cast(for 4 process)

mpirun -n 8 --hostfile clusterhosts b\_cast(for 8 process)

1. **Commands for search in array**

To compile:

mpicc -o search\_array search\_array.c

To Run:

mpirun -n 4 --hostfile clusterhosts search\_array