



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Parallel and Distributed Computing-CSE4001L

Lab Slots: L9+L10

Date: 16th October

1. Write a MPI Program to perform binary search.
2. Write a MPI program to perform ring communication.
3. Write a MPI program to perform the squaring of numbers in array.
Input sequence: 2 4 8 16
Output sequence: 4 16 64 256
4. Write a MPI program to perform the sum of 1000 numbers using gather and scatter.
5. Write a MPI program to perform the sum of 1000 numbers using MPI broadcast and reduce function. Calculate the time using MPI wall time function.
6. Write a MPI program to calculate the the value of pi using broadcast and reduce functions.