## Distributed Computing Lab

**MPI programs**

1. Write a MPI program to implement Blocking send and receive functions.
2. Write a MPI program to demonstrate deadlock and implement a solution to avoid deadlock
3. Write a MPI program to implement Vector Addition of two vectors to generate resultant vector using Scatter and gather operation.
4. Write a MPI program to find factorial of a number using Broadcast and Reduce operation.
5. Write a MPI program to generate all prime numbers till ‘n’ (n being user input).