**Parallel Programming Lab**

**Practical No. 7**

**Title of practical:**

Introduction to MPI: simple point-to-point communication using MPI\_Send and MPI\_Recv.

**Problem Statement 1:**

Implement a simple hello world program by setting number of processes equal to 10

**Screenshots:**

**Information 1:**

**Q2: Implement a MPI program to give an example of Deadlock.**

**Program and screenshots**

**Q3. Implement blocking MPI send & receive to demonstrate Nearest neighbor exchange of data in a ring topology.**

**Program and screenshots**

**Q4. Write a MPI program to find the sum of all the elements of an array A of size**

**n. Elements of an array can be divided into two equals groups. The first [n/2]**

**elements are added by the first process, P0, and last [n/2] elements the by second process, P1. The two sums then are added to get the final result.**

**Program and screenshots**