Walchand College of Engineering, Sangli Department of Computer Science and Engineering **Class:** Final Year (Computer Science and Engineering) **Year:** 2023-24 Semester: 1 **Course:** High Performance Computing Lab Practical No. 12 Exam Seat No: **Full Name: Title of practical:** Analysis of MPI Programs **Problem Statement 1:** Execute the MPI program (Program A) with a fixed size broadcast. Plot the performance of the broadcast with varying numbers of processes (with constant message\_size). Explain the performance observed. **Screenshot: Analysis: Problem Statement 2:** Repeat problem 2 above with varying message sizes for reduction (Program B). Explain the observed performance of the reduction operation. **Screenshot:** 

**Analysis:**