

**Class:** Final Year (Computer Science and Engineering)

**Year:** 2023-24

**Semester:** 1

**Course:** High Performance Computing Lab

### **Practical No. 4**

**Exam Seat No:**

**Title of practical:**

Study and Implementation of Synchronization

**Problem Statement 1:**

Analyse and implement a Parallel code for below programs using OpenMP considering synchronization requirements. (Demonstrate the use of different clauses and constructs wherever applicable)

Fibonacci Computation:

**Screenshots:**

**Information:**

**Problem Statement 2:**

Analyse and implement a Parallel code for below programs using OpenMP considering synchronization requirements. (Demonstrate the use of different clauses and constructs wherever applicable)

Producer Consumer Problem

**Screenshots:**

**Information:**

**Github Link:**