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

**Year:** 2025-26 **Semester:** 1

**Course:** High Performance Computing Lab

**Practical No. 4**

**PRN: 22510039**

**Title of practical:**

Study and Implementation of Synchronization

**Problem Statement 1:**

# Analyze 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:**

# Analyze 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:**