

## **Week 9 (13/10/2023) JAVA Lab Exercises**

1. Create a task that produces a sequence of n Fibonacci numbers, where n is provided to the constructor of the task. Create a number of these tasks and drive those using threads. (Note: use join( ) method of Thread class)
2. Write a program to create two threads, one thread will write the text in a file and another will read the same from the file. Synchronize the above two threads using appropriate methods.
3. Implement three classes: Storage, Counter, and Printer. The Storage class should store an integer. The Counter class should create a thread that starts counting from 0 (0, 1, 2, 3 ...) and stores each value in the Storage class. The Printer class should create a thread that keeps reading the value in the Storage class and printing it. Write a program that creates an instance of the Storage class and sets up a Counter and a Printer object to operate on it. Modify the program to ensure that each number is printed exactly once, by adding suitable synchronization.