ASSIGNMENT NO: 7

Aim

Multithreading using Thread Class and Runnable Interface

Problem Statement 1
Write a program to create a multithreaded calculator that does addition, subtraction, multiplication, and division using separate threads.
Additionally also handle '/ by zero' exception by the division method.

Problem Statement 2
Print even and odd numbers in increasing order using two threads in Java

Objectives:

1. To understand Multithreading in Java

2. To learn two different ways to create threads in Java.

Theory:

Explain following concepts with their syntax and appropriate example in Java

- Multithreading in Java

- Life Cycle of a Thread

- Two ways to create a Thread

- How to perform multiple tasks by multiple threads

- Thread Scheduler

- Joining a thread

Platform:

- Windows / 64-bit Open source Linux or its derivatives.

- Eclipse IDE with Java

Input:

Students should write input provided

Output:
Students should write output obtained

Conclusion:

Thus, learnt the use of thread class in java and performed multithreading operations.

FAQs:

1. Why do we use collection framework?
2. Which is best collection framework in Java?
3. What is difference between array and collection?
4. What is HashMap in Java?

*Attach copy of Implemented Java Code along with output.