

Practice problems on Exception

1. Write a Java application which will prompt the user to provide two numbers as input. Read inputs, calculate the sum of those 2 numbers and display the result. If any of the input is a negative number, throw an `InvalidParameterException`.
2. Write a Java application that prompts the user to enter an integer between 1 and 100 (inclusive). If the input is outside this range, the program should throw a custom exception called `OutOfRangeException`.
3. Write a Java program to calculate the factorial of a non-negative integer using recursion. However, if the input is a negative integer, the program should throw a custom exception called `NegativeNumberException`. Additionally, for very large input numbers that cause a stack overflow due to excessive recursion, the program should catch a `StackOverflowError` and display an error message.