

```

import java.util.Scanner;

public class factorialcalculator {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        while (true) {
            System.out.println("Enter a number to calculate its factorial (or type 'exit' to quit): ");
            if (scanner.hasNextInt()) {
                int number = scanner.nextInt();
                if (number < 0) {
                    System.out.println("Factorial is not defined for negative numbers.");
                } else {
                    long factorial = calculateFactorial(number);
                    System.out.println("The factorial of " + number + " is: " + factorial);
                }
            } else if (scanner.hasNext("exit")) {
                break;
            } else {
                System.out.println("Invalid input. Please enter a valid integer or 'exit' to quit.");
                scanner.next(); // Clear the invalid input
            }
        }
        scanner.close();
    }

    public static long calculateFactorial(int number) {
        long factorial = 1;
        for (int i = 1; i <= number; i++) {
            factorial *= i;
        }
        return factorial;
    }
}

```