

```

import java.math.BigInteger;
import java.util.Scanner;

public class FactorialCalculator {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a number: ");
        int num = scanner.nextInt();

        if (num < 0) {
            System.out.println("Please enter a positive integer.");
        } else {
            System.out.println("Factorial (Iterative): " + iterativeFactorial(num));
            System.out.println("Factorial (Recursive): " + recursiveFactorial(num));
        }
    }

    private static BigInteger iterativeFactorial(int num) {
        BigInteger result = BigInteger.ONE;
        for (int i = 2; i <= num; i++) {
            result = result.multiply(BigInteger.valueOf(i));
        }
        return result;
    }

    private static BigInteger recursiveFactorial(int num) {
        if (num == 0 || num == 1) {
            return BigInteger.ONE;
        }
        return BigInteger.valueOf(num).multiply(recursiveFactorial(num - 1));
    }
}

```