```
import java.util.Scanner;
public class ques{
  public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    try {
      System.out.print("Enter the numerator: ");
      int numerator = sc.nextInt();
      System.out.print("Enter the denominator: ");
      int denominator = sc.nextInt();
      int result = divideNumbers(numerator, denominator);
      System.out.println("Result: " + result);
catch (ArithmeticException e) {
      System.out.println("Error: Cannot divide by zero. Please enter a non-zero denominator.");
catch (Exception e) {
      System.out.println("Error: Invalid input. Please enter valid integers.");
finally {
    }
 }
  public static int divideNumbers(int numerator, int denominator) {
    if (denominator == 0) {
      throw new ArithmeticException("Division by zero is not allowed.");
    return numerator / denominator;
 }
```