package exception;

public class ExceptionHandlingExample {

public static void main(String[] args) {

// Example 1: ArithmeticException

try {

int result = 10 / 0; // This will throw an ArithmeticException

System.out.println("Result: " + result);

}

catch (ArithmeticException e) {

System.out.println("Exception caught: Division by zero not allowed.");

System.out.println("Exception details: " + e.getMessage());

}

finally {

System.out.println("Finally block executed after handling ArithmeticException.");

}

System.out.println("\nNext Example --> ArrayIndexOutOfBoundsException\n");

// Example 2: ArrayIndexOutOfBoundsException

try {

int[] numbers = {1, 2, 3};

System.out.println("Accessing 5th index: " + numbers[5]); // Will throw exception

}

catch (ArrayIndexOutOfBoundsException e) {

System.out.println("Exception caught: Array index out of bounds.");

System.out.println("Exception details: " + e.getMessage());

}

finally {

System.out.println("Finally block executed after handling ArrayIndexOutOfBoundsException.");

}

System.out.println("\nProgram continues after all exceptions handling...");

}

}