

StackExampl...HashMapExam...HashMapCheck...CricketerSc...ExceptionHan...X»5

1package JavaCollection;
2
3
4import java.util.Scanner;
5
6public class ExceptionHandlingWithThrow {
7// Method to check if the number is positive
8public static void checkPositiveNumber(int number) {
9// Throwing an exception if the number is negative
10if (number < 0) {
11throw new IllegalArgumentException("Negative numbers are not allowed.");
12} else {
13System.out.println("The number " + number + " is positive.");
14}
15}
16
17public static void main(String[] args) {
18Scanner scanner = new Scanner(System.in);
19
20// Taking input from the user
21System.out.print("Enter a number: ");
22int number = scanner.nextInt();
23
24try {
25// Calling the method to check if the number is positive
26checkPositiveNumber(number);
27} catch (IllegalArgumentException e) {
28// Catching and handling the thrown exception
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ProblemsJavadocDeclarationConsoleX

<terminated> ExceptionHandlingWithThrow [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32
Enter a number: 78
The number 78 is positive.

```
14 }
15 }
16
17 // Example 2: Handling ArithmeticException
18 try {
19     int a = 10;
20     int b = 0;
21     // Attempting to divide by zero
22     System.out.println("Division result: " + (a / b));
23 } catch (ArithmeticException e) {
24     // Handling ArithmeticException
25     System.out.println("Exception: Arithmetic error! " + e.getMessage());
26 }
27
28 // Example 3: Handling both exceptions in a single try-catch block
29 try {
30     int[] numbers = {10, 20, 30};
31     // Attempting to divide by zero and access an out-of-bounds index
32     System.out.println("Accessing index 5: " + numbers[5]);
33     int result = 10 / 0;
34 } catch (ArrayIndexOutOfBoundsException | ArithmeticException e) {
35     // Handling both exceptions
36     System.out.println("Exception: " + e.getClass().getSimpleName() + " - " + e.getMessage());
37 }
38 }
39 }
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```

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Problems Javadoc Declaration Console

```
<terminated> ExceptionHandlingExample [Java Application] C:\sts-4.26.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21
Exception: Array index out of bounds! Index 5 out of bounds for length 3
Exception: Arithmetic error! / by zero
Exception: ArrayIndexOutOfBoundsException - Index 5 out of bounds for length 3
```