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**//Experiment no. :- 6**

import java.util.Scanner;

public class ExceptionHandlingDemo {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

try {

// Prompt user for input

System.out.print("Enter the first number (Num1): ");

String input1 = scanner.nextLine();

System.out.print("Enter the second number (Num2): ");

String input2 = scanner.nextLine();

// Convert inputs to integers

int num1 = Integer.parseInt(input1);

int num2 = Integer.parseInt(input2);

// Perform division

int result = num1 / num2;

System.out.println("Result of division (Num1 / Num2): " + result);

} catch (NumberFormatException e) {

System.out.println("Error: Invalid input. Please enter valid integers.");

} catch (ArithmeticException e) {

System.out.println("Error: Division by zero is not allowed.");

} catch (ArrayIndexOutOfBoundsException e) {

System.out.println("Error: Array index is out of bounds."); // Example case, not applicable here

} finally {

// Close the scanner

scanner.close();

}

}

}

/\*

**OUTPUT**

Enter the first number (Num1): 10

Enter the second number (Num2): 2

Result of division (Num1 / Num2): 5

Enter the first number (Num1): 10

Enter the second number (Num2): a

Error: Invalid input. Please enter valid integers.

Enter the first number (Num1): 10

Enter the second number (Num2): 0

Error: Division by zero is not allowed.

Enter the first number (Num1): x

Enter the second number (Num2): y

Error: Invalid input. Please enter valid integers.

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