Program 9

Write a program that creates a user interface to perform integer divisions. The user enters two numbers in the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If Num1 or Num2 were not an integer, the program would throw a NumberFormatException. If Num2 were Zero, the program would throw an Arithmetic Exception Display the exception in a message dialog box.

import javax.swing.\*;

public class SimpleDivisionCalculator {

    public static void main(String[] args) {

        String num1Str = JOptionPane.showInputDialog("Enter Num1:");

        String num2Str = JOptionPane.showInputDialog("Enter Num2:");

        try {

            int num1 = Integer.parseInt(num1Str);

            int num2 = Integer.parseInt(num2Str);

            if (num2 == 0) {

                throw new ArithmeticException("Cannot divide by zero.");

            }

            int result = num1 / num2;

            JOptionPane.showMessageDialog(null, "Result: " + result);

        } catch (NumberFormatException e) {

            JOptionPane.showMessageDialog(null, "Error: Please enter valid integers.", "Error", JOptionPane.ERROR\_MESSAGE);

        } catch (ArithmeticException e) {

            JOptionPane.showMessageDialog(null, e.getMessage(), "Error", JOptionPane.ERROR\_MESSAGE);

        }

    }

}

Output:



