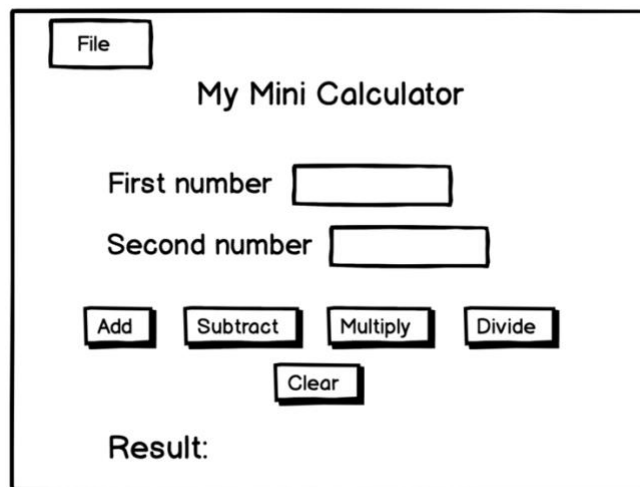


Homework 7

CST 338

Create a simplified calculator GUI using JavaFX. Here is a mockup to give you an idea of what the primary window should look like:



The user enters a "First number" and "Second number" and then presses a button for four available mathematical operations: "Add", "Subtract", "Multiply", and "Divide".

The results are then displayed to the right of "Result".

Pressing the "Clear" button will clear the two text fields and the result.

When the "File" menu is clicked, an "About" menu item will appear. When "About" is clicked, a modal window will appear with information about your application. (Your name should appear here.) When the "OK" button is clicked, the modal window should close.

(See next page)

The screenshot shows a window titled "My Mini Calculator". In the top-left corner, there are two menu buttons: "File" and "About". Below the menus, the text "First number" is followed by a text input field. Below that, the text "Second number" is followed by another text input field. Underneath the input fields, there are four buttons: "Add", "Subtract", "Multiply", and "Divide". Below these buttons is a "Clear" button. At the bottom of the window, the text "Result:" is displayed.

The screenshot shows a modal dialog box with the text "Designed by Jane Doe in California." centered at the top. At the bottom center of the dialog is an "OK" button.

If a user enters non-numeric values, leaves one or more text fields blank, or tries to divide by zero, a modal window will appear informing the user of the error. The program should not crash. A few examples:

The screenshot shows a modal dialog box with the text "You cannot leave the 'First number' field blank." centered at the top. At the bottom center of the dialog is an "OK" button.

The screenshot shows a modal dialog box with the text "Please enter a number." centered at the top. At the bottom center of the dialog is an "OK" button.

When the "OK" button is clicked, the modal window should close.

Your program will be graded based on:

1. Compilation without error
2. Correct output result
3. Good programming structure
4. Comments (Title, Abstract, and Date are **mandatory** for each file.)
5. Meaningful and related variable names.