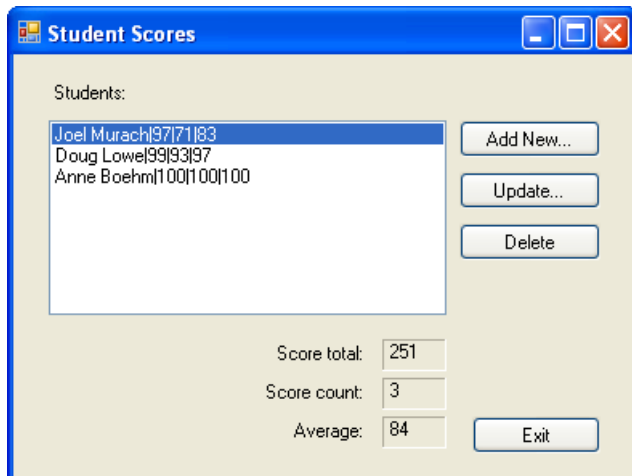


Lab Assignment Two Lesson Four - Maintain student scores

For this project, you'll develop an application that lets the user add students to a list, change the scores for a student in the list, and delete a student from the list.

The design of the Student Scores form

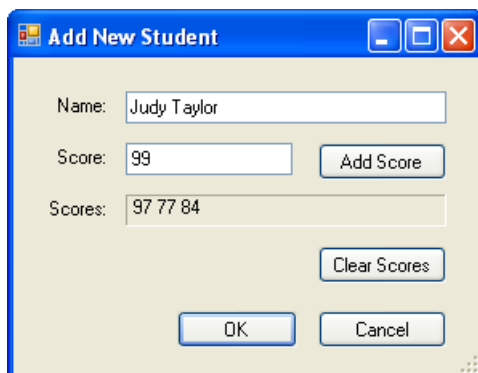


The screenshot shows a window titled "Student Scores" with a blue title bar. Inside, there is a list box labeled "Students:" containing three entries: "Joel Murach|97|71|83", "Doug Lowe|99|93|97", and "Anne Boehm|100|100|100". To the right of the list box are three buttons: "Add New...", "Update...", and "Delete". Below the list box, there are three labels with corresponding text boxes: "Score total: 251", "Score count: 3", and "Average: 84". An "Exit" button is located at the bottom right of the window.

Operation

- To display the total, count, and average for a student, the user selects the student from the list box. If the list box is empty, the total, count, and average labels should be cleared.
- To add a new student, the user clicks the Add button to display the Add New Student dialog box.
- To update an existing student's scores, the user selects the student in the list box and clicks the Update button to display the Update Student Scores dialog box.
- To delete a student, the user selects the student in the list box and clicks the Delete button.

The design of the Add New Student form



The screenshot shows a dialog box titled "Add New Student" with a blue title bar. It contains a "Name:" label followed by a text box containing "Judy Taylor". Below that is a "Score:" label followed by a text box containing "99" and an "Add Score" button. Underneath is a "Scores:" label followed by a text box containing "97 77 84". Below the "Scores:" text box is a "Clear Scores" button. At the bottom of the dialog box are "OK" and "Cancel" buttons.

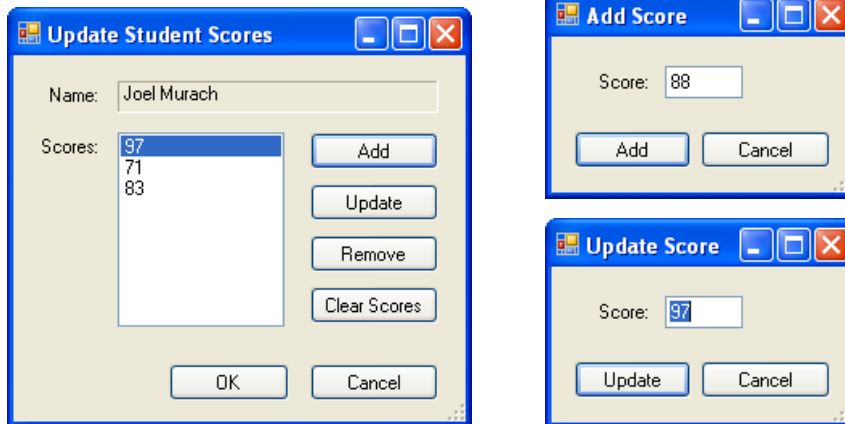
Operation

- To add a new student, the user enters a student name and, optionally, one or more scores and clicks the OK button.
- To add a score, the user enters a score and clicks the Add Score button. The score is added to the list of scores in the Scores label.
- To remove all scores from the Scores label, the user clicks the Clear Scores button.
- To cancel the add operation, the user clicks the Cancel button.

The design of the Update Student Scores and Add/Update Score forms

Operation

- To add a score, the user clicks the Add button and enters the score in the Add Score dialog box that's displayed.
- To update a score, the user selects the score, clicks the Update button, and changes the score in the Update Score dialog box that's displayed.



- To remove a score from the Scores list box, the user selects the score and clicks the Remove button.
- To remove all scores from the Scores list box, the user clicks the Clear Scores button.
- To accept all changes, the user clicks the OK button.
- To cancel the update operation, the user clicks the Cancel button.

Specifications

- This application should make sure that the user enters a name for a new student. However, a new student can be added without any scores.
- This application should check all scores entered by the user to make sure that each score is a valid integer from 0 to 100.
- When the application starts, it should load the list box with three sample students.