**GRADE CALCULATOR PROGRAM**

**By Taylor Bailey**

I have designed a program to be utilized by teachers that will enable them to load up a list of students and manipulate the data using the program. When the program opens, the main window gives several options: “Begin Grade Calculator”, which opens a window for grade calculation; “Sort Students”, which allows the entire list to be displayed and sorted; and “Add New Student”, which allows the user to add new students to the list. There is also a close button that closes the window and stops the program.

Begin Grade Calculator features a combo box that is filled with all the students on the list loaded from the file. Once a student is selected using the drop down menu, pushing the “Get Info” button will display that student’s name, grades, and current grade point average. The clear button clears the text area, and the close button closes the window.

Sort Students features three options: “Show Student List”, which shows the entire list of students in the text area, “Sort by ABC Order”; which sorts the list in alphabetical order; and “Sort in Reverse Order”, which reverses the sort of the list. There is also a close button that closes the window and stops the program.

Finally, “Add New Student” adds functionality that enables a new student to be added to the list. The user inputs the student’s name and three grades. Clicking “Ok” creates the student, adds them to the list, and closes the window. Clear clears the text fields. Close closes the window without creating the new student.

Note: The format of the student file is meant to be as follows:  
  
LeslieB,100,95,90

JudithB,92,85,95

BlakeL,80,80,89

MatthewA,95,100,82

JenniferM,75,82,85

LynseyA,94,99,85

GeorgeB,56,78,70

RubyK,87,90,87

HaroldO,65,70,70

EllieB,85,82,87