I will use the oldest trick in the book to approach the problem in program 7, I will break down the program 7 into its parts so it can be easily understood and easy to build the solution. This means I will probably have more methods then other students however my code should be easier to read due to the simple nature of the methods.

**Methods**

OpenFile()

Open File will open the file to build the list of the initial grades

CountGradeA()

Count Grade A will count how many students have an A

CountGradeB()

Count Grade B will count how many students have an B

CountGradeC()

Count Grade C will count how many students have an C

CountGradeD()

Count Grade D will count how many students have an D

CountGradeF()

Count Grade F will count how many students have an F

DisplaySummary()

Display summary will display the current grades with the min, max and avg grades

AdjustGrades()

Adjust Grades will prompt the use how they would want to change everyone’s grades and then will apply that change

**Arrays**

I plan on using two array lists to hold the student’s grades. Because I am using array lists I don’t have to worry about the length of the array.

InitialGrades

The Initial Grades array list will hold the grades read from the file so if the user doesn’t want to keep the changes made to the Adjusted Grades then I still have the initial grades to write out and save.

AdjustedGrades

The Adjusted Grades array list will how the grades after the user as adjusted them. So, if they wish to keep the adjusted grades I have the adjusted grades to print out onto a new file.

**Testing**

For test my methods after I write the method I will test it induvial to make sure it is functioning as intended

As for how I will test my program I will make two test text files to test my program. These files will have not more than ten grades in each so I will know the answers before I plug them into my program. That way I can see if my program is actually doing what I should be doing.