

02.07 Assignment Instructions

Instructions: Write a program that will calculate the total points and average grade each time a new score is added to the total.

1. Create a new project called 02.07 Grades in the Mod02 Assignments folder.
2. Create a class called GradesV2 in the newly-created project folder.
3. Use earlier programs as models (e.g. AdmissionsV1 class) to set up your class declaration statement and a **main()** method. All of the code is written within the main method.
4. Complete the program heading to include your name, the date, and a description.
5. Use the following variable declaration and initialization statements in your program. Notice there are three ints and one double. Do not modify these statements or add more variables.



```
//local variables
int numTests = 0;      //counts number of tests
int testGrade = 0;     //individual test grade
int totalPoints = 0;   //total points for all tests
double average = 0.0;  //average grade
```

6. Use the appropriate arithmetic/assignment operators and the increment operator as shortcuts in your calculations.
7. Test your program with the following four grades: 95, 73, 91, and 82.
8. Notice **average** is of type **double** while the remaining variables are **ints**. Your arithmetic expression will include mixed data types. You will need to use casting to properly calculate the average. If not, the value of **average** will always end in .0.
9. Once the program works with the initial four test scores, add the appropriate code to process five more tests with grades of your choice.

Expected Output: When the program runs, you should see the output shown in the screen shot below for the first four grades. (Don't worry about the excessive number of decimal places; you will learn how to format numeric output soon.)

A screenshot of a BlueJ Terminal Window. The title bar says "BlueJ: Terminal Window". Below the title bar is a tab labeled "Options". The terminal displays the following output:

```
Test # 1  Test Grade: 95  Total Points: 95  Average Score: 95.0
Test # 2  Test Grade: 73  Total Points: 168  Average Score: 84.0
Test # 3  Test Grade: 91  Total Points: 259  Average Score: 86.33333333333333
Test # 4  Test Grade: 82  Total Points: 341  Average Score: 85.25
```



