

## 01.12 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.

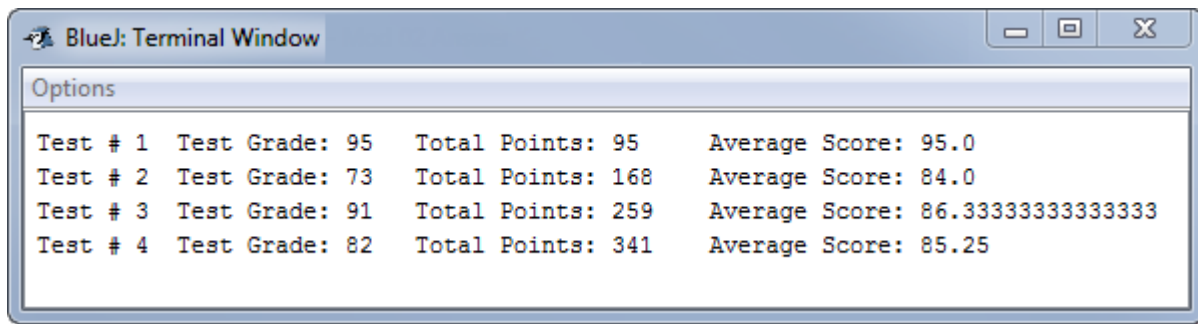
1. Create a new project called 01.12 Grades in the Mod01 Assignments folder.
2. Create a class called GradesV2 in the newly-created project folder.
3. Use earlier programs as models (e.g. AdmissionsV1 class) to set up your class declaration statement and a `main()` method. All of the code is written 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 window has a title bar with the text "BlueJ: Terminal Window" and standard minimize, maximize, and close buttons. Below the title bar is a tab labeled "Options". The main area of the window displays a table of test results.

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



Print