

CITP 190 – Introduction to Java

Project 13

This project requires you to create one project. The project will create an applet. Please be sure to download and unzip the project start files.

To receive full credit for this project you must submit the following:

- Class diagrams for the StudentScoresApp, StudentScoresFrame, and StudentScoresPanel classes. (No diagrams are necessary for any of the methods of these classes.)
- The source code for the project (the .java file) following the coding standards.
- The bytecode for each code file (the.class file)
- Proof of the correctness of your output using the test data provided. Please note that you must provide proof for all test data. Proof will show what the values of the number of scores, average score, and best score after each score is entered. You may provide additional test data.
- The following three screen captures:
 - A screen capture the Applet Viewer Window
 - A screen capture of the applet after you have entered the first three scores (but before you click the Clear button)
 - A screen capture of the applet after you have entered the last four scores.

Submit all files as one (1) ZIP file to the Project 13 Drop Box in the course site.

Grading:

Program design	5 points
Design diagrams	5 points
Following course standards	5 points
Proof	3 points
Screen captures	2 points

Important notes:

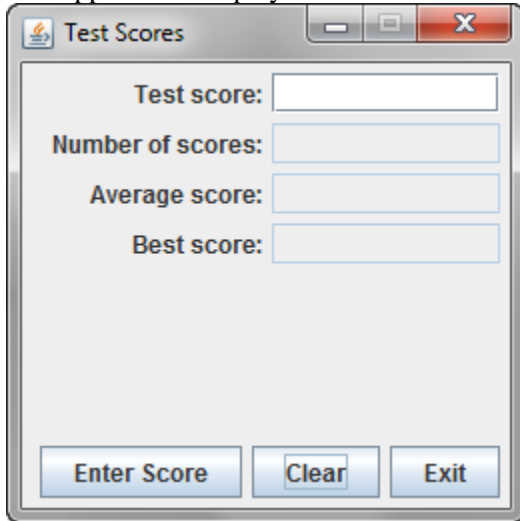
1. Incorrect calculations will result in a 0 grade for this project.
2. Output that is not presented as shown (including spaces and spelling) will result in a 0 grade for this project.
3. Code that does not follow the standards will result in a 0 grade for this project.
4. Uploading more than one zip file will result in a 0 grade for this project.
5. Not using all the test data provided will result in a 0 grade for this project.

Specifications

- Convert the StudentScoresApp application to an applet. Do not change the logic of the application.
- Run the applet in the IDE. You do not need to create a Web page to display the applet.

What the StudentScoresApp Does

This application displays the screen shown below:

The screenshot shows a Java applet window titled "Test Scores". Inside the window, there are four text input fields arranged vertically. The first field is labeled "Test score:", the second "Number of scores:", the third "Average score:", and the fourth "Best score:". At the bottom of the window, there are three buttons: "Enter Score", "Clear", and "Exit". The window has standard Windows-style window controls (minimize, maximize, close) in the top right corner.

The application allows the user to enter test scores one at time. The application displays the number of scores entered , the average of the scores, and the highest (best) score. The user can clear the current calculations and start again.

- The user enters a score into the textbox and presses the Enter Score button. The score is checked to see if it higher that the highest score already entered. It is also added to the total of the scores. The new number of scores, average score, and best score are displayed.

Test Data

Enter the following scores:

12

15

23

Press the Clear button, then enter the following scores:

50

85

12

65