

Programming Assignment #10: JavaFX

Program Problem: This week you have a choice of 2 programs to write. The purpose is solely to get you to get your JavaFX up and running in the compiler of your choice. The video to help install with Eclipse is in the lecture material. If you are using Netbeans google a video to help you. Once you have JavaFx installed and running you will **code either problem 14.12 or 14.13** both are written for you below.

Write:

14.12. (Display a bar chart) Write a program that uses a bar chart to display the percentages of overall grade represented by projects, quizzes, midterm exams, and final exam. Suppose projects take 20% and are displayed in red, Quizzes take 10% and are displayed in blue, midterms take 30% and are displayed in green, final exam takes 40% and are displayed in orange. Use the Rectangle class to display the bars. You may play around with the colors for each category just make sure to include the information from the diagram14.46b.

14.13. (Display a pie chart) Write a program that uses a pie chart to display the percentages of overall grade represented by projects, quizzes, midterm exams, and final exam. Suppose projects take 20% and are displayed in red, Quizzes take 10% and are displayed in blue, midterms take 30% and are displayed in green, final exam takes 40% and are displayed in orange. Use the Arc class to display the bars. You may play around with the colors for each category just make sure to include the information from the diagram14.46b

Documentation: You must use a readable, logical, and coherent set of style and formatting rules. You are to stick to the "structured approach" in programming. Be sure to comment your code in addition to the required header. Each submission must have a block comment area that includes: Your first and last name, program exercise title, program due date, and the program description.

Submission Details: All submissions are electronic. When you turn in a programming assignment, you must send me a compilable and correctly working copy of the assigned program source code. I will, at my discretion, compile and run (on my own test input) the programs you submit electronically. This is a part of my grading procedure. Your program must work. That means it must compile correctly, run according to specifications, and give correct results. Generally, a program that works will receive at least 40-50 percent of full credit. The rubric used for scoring is visible to you so please review it before you submit your assignment. Submit your source file not a link to an online compiler, text file, or executable file. In addition to your java file <lastnameFX.java>, include a word document that has your screen snips for your test runs name that file <lastnameFX.docx>.

For full credit, your program must also meet the following criteria:

- Good design, including good algorithms.
- Good form, including documentation, and readability.
- Adequate testing, especially the testing of data boundaries and special cases.

You need to do a good job on all the criteria to receive an "A" on your program.