This Assignment asks students to consider graphical user interfaces (GUIs); the modern way to have human-computer interaction take place in windows whose position and aspect ratios can be changed to accommodate desktops, laptops, tablets, and smart phones.

The basics for GUI classes, assembled into JavaFX, is considered in Chapter 14 through Sections 14.9.  Section 14.10 is relevant to Exercise 14.1 and Section 14.11 is relevant to Exercise 14.12.  These will take a bit of doing so go as far as you can; partial credit will be awarded.

JavaFX methods are not in Java 7; for this assignment you will have to upgrade to at least the Java 8 Development Kit (JDK) and possibly also Java 8 Runtime Environment (JRE).  Java 9 is available but I have not upgraded yet for compatibility to other programs.  If you want to or are using Java 9 and find problems and potential benefits compared to Java 8 please report these to the entire class by email or in a Discussion forum.

Documents in Supplements II on the text's companion web site provide guidance on how to upgrade; see the inside front cover of the text on how to access the Supplements.

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| MIS | 14.1, 14.12 | 14.1, 14.12 |