Programming Fundamentals II Sec. 601

Lab Assignment #3 Style Panel

Due date: 9/16/20 at 11:59 pm

Purpose: The lab this week focuses on applying style to some text based on the user's selection of checkboxes. You should be familiar with the concepts of CSS and CheckBox controls.

Task: Create a project called StylePanel_FirstName_LastName or Lab3_FirstName_LastName. Remember to include comments summarizing the program.

- Make sure you have imported all of the classes necessary for this application. This
 program will require Application, Stage, Scene, CheckBox, Label, VBox, EventHandler,
 ActionEvent and may require Pos and Insets (depending on how you approach
 customizing the interface). Prepare the program to be executed as a JavaFX application.
- In the global scope of the class, declare the variables for the controls used in this
 application. This program will consist of three CheckBox controls and a Label control.
 The CheckBox controls should indicate bold, italicize, and underline. The Label should
 have any text of your choosing.
- 3. In the global scope of the class, declare a String variable that will hold the style rules currently being applied to the Label. The String is initially empty.
- 4. In the start method, place the controls into the VBox. The recommended order, from top to bottom, is the bold CheckBox, the italicize CheckBox, the underline CheckBox, and the Label. You may also need to either add padding or set the alignment to better position the VBox.
- 5. Create a private inner class for the EventHandler that will handle any of the three CheckBox controls being clicked.
- 6. In the handle method, set the String for the style rules back to an empty String. Then check which CheckBox controls are currently selected. Use String concatenation to add the following rules to that String if the corresponding CheckBox is selected:

If the bold CheckBox is selected: -fx-font-weight: bold; If the italicize CheckBox is selected: -fx-font-style: italic; If the underline CheckBox is selected: -fx-underline: true;

Then set the style of the label using the String that holds the current style rules.

Register this event handler to all three CheckBox controls.

Criteria: The comment summarizing the program is worth 5 points. The declarations of the controls and the String variable in the global scope are worth 5 points each (25 points total). Adding the controls to the VBox is worth 5 points. Creating and implementing the EventHandler as a private inner class is worth 50 points. The event registrations to the three CheckBox controls are worth 5 points each (15 points total).