1. Program 7 Instructions, CS102, Prof. Loftin

Write the code for a Java applet which modifies the StyleOptions applet we discussed in class (and also in section 5 of Lewis & Loftus) to allow the user to specify the size of the font. Use a text field to obtain the size.

You should use the given versions of StyleOptions.java and testStyle.html, essentially the same as those discussed in class. You only need to modify the StyleOptionsPanel.java class.

2. The listener classes

You should implement two separate listener classes: As in the Lewis & Loftus’s version of StyleOptionsPanel.java, implement one listener class

private class StyleListener implements ItemListener

for a listener attached to the two checkboxes. In addition, implement a separate listener class

private class EnterFontListener implements ActionListener

attached to the text field for entering the font size. (The reason for coding two separate listener classes is that checkboxes and text fields implement two different interfaces ItemListener and ActionListener respectively.)

It should be helpful to have global int variables of the StyleOptionsPanel class:

private int fontSize, style;

The variable style should replace the local variable in the itemStateChanged method, and should refer to the style (including italic or bold) of the font. It should be initialized to Font.PLAIN in the panel constructor.

The fontSize variable should perform a similar function for the font size, and should be initialized to be 36.

3. Due date: November 2, 2009

4. How to turn it in

Send your modified version of StyleOptionsPanel.java as an email attachment to loftin@rutgers.edu.

5. My version of the applet

http://andromeda.rutgers.edu/~loftin/cs102fal09/testStyle.html
6. Bonus

You may notice in my version of the applet, that if the font size becomes small, one or more of the checkboxes, or even the label for the text field, will move to the same line as the message.

Implement your applet, still within the class `StyleOptionsPanel`, so that

- the two checkboxes cannot be separated on different lines
- the label of the text field and the text field itself cannot be separated on different lines

(Hint: Group them into panels.)