CIS 183 Homework02

100 Points

Distributed: September 20, 2023

Due: October 01, 2023 by 11:59 pm

Upload Instructions:

1. You need to submit the source code for all of the programs in the homework assignment (these are the java files and xml files). All source projects need to be clearly labeled (Homework02\_Program1)
2. You need to submit a word file that states how to use the program and what the program does. This should also tell me any issues that you ran into and things that you were unable to complete.
3. These two files need to be upload to GitHub using a public repository. Share the link with me on Brightspace.

Coding Rules:

1. Source code needs to be properly formatted. This means that all brackets line up properly, indentation is consistent, comments are included, comment header included, and variables have meaningful names.
2. Comment header must be at the top of your program and must state your name, the date, and a description of the program
3. Comments are used at your discretion but having no comments is not acceptable.

Demo:

1. You need to give me a demo of your project the day that it is due. If you are taking this class online, you need to record a video of your program operating. It should be very similar to the video that I uploaded for the assignment.

**Program 01 RGB Background Color Slider**

This program will allow the user to slide 3 different seekbars and produce a color based of the three seekbar values (red, green, and blue) (valid values for red, green and blue are from 0-255). As the user slides the seekbars the background color of the application will change to match the color. The RGB color will also be shown in a hexadecimal representation below the last seekbar (valid hex values are from 00-FF). The user will have the ability to save the color to an arraylist and view that color in a listview. If the user selects the color from the listview all of the sliders, the hexadecimal representation, and the background color will change to the specified color. The user should be allowed to store as many colors as they want. After the user saves the color the seekbars, background color, and hexadecimal value should all be set back to either black or white. If the color is too dark and the user cannot see the text, the text color should switch to white. If the color is too light and the user cannot see the text, the text color should switch to black.

**Point Breakdown (Points below will be based off credit/no credit):**

* GUI matches mine (including capitals for the hex values): 10
* ColorInfo.java (Do not call this Color.java, that already exists in Java and will cause issues) class created and used to store colors: 10
* Seekbars change red, green and blue labels: 10
* Seekbars change background color: 10
* Seekbars change hexadecimal value: 10
* Custom cell and custom adapter created and use properly: 10
* Selecting saved colors changes background: 10
* Selecting saved colors changes seekbars: 10
* Selecting saved colors changes hexadecimal representation: 10
* Text changing colors as needed: 5
* Saving the color resets GUI to either black or white: 5









