CECS 220
Summer 2021
Assignment 5
Due Date: By 9 pm. on Wednesday, July 21, 2021

Instructions about assignments and reports:

Your presentation in your report reflects great deal about you, your understanding of the assignment and on how much this course means to you. I try very hard to look at the substance of the report but I will be lying if I said that presentation does not influence my judgment. It would be wise on your part to assume that this true in every course at school and in real life/work. I expect your reports to be well formed and conform to the following rules:

1. All reports have to be submitted as a PDF report that contains:
    1.1. Title page with your name, assignment number and the day you are actually submitting this report (Not the assignment due date)
    1.2. A brief description of the assignment or the statement of the problem which ever is appropriate.
    1.3. A brief description of the logic employed and the needed input and expected output.
    1.4. A comprehensive set of snapshots showing the inputs submitted, outputs obtained in the case of a successful output or a failure.
    1.5. Any conclusions, analysis, or answers to any questions I as you as part of the assignment.
2. All source code of all your classes interface and implementation and not the whole project (.java files only). You may combine these in one text file.
3. Please zip both the PDF document with the source code and submit one zip file.
4. Name the final zipped file using your initials and assignment number, e.g. my file should be named: ini_assignment_5.zip

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Please do the following:

1. Programming project 9.2 of Chapter 9:
    Design and implement a set of classes that define the employees of a hospital: doctor, nurse, administrator, surgeon, receptionist, janitor, and so on. Include methods in each class that are named according to the services provided by that person and that print an appropriate message. Create a main driver class to instantiate and exercise several of the classes.
2. Programming project 9.9 of Chapter 9:
    Write a JavaFX application that displays a text field, a color picker, and a button. When the user presses the button, or presses return while in the text field, display the text obtained from the text field in the color selected by the color picker.
3. Programming project 9.10 of Chapter 9:
    Modify the RubberLines program from Chapter 7 so that a color picker is displayed in the upper left corner of the window. Let the value of the color picker determine the color of the next line drawn.
4. Programming project 10.3 of Chapter 10 :
    Implement the Speaker interface described in Section 7, and create three classes that implement Speaker in various ways. Create a driver class whose main method instantiates some of these objects and tests their abilities. (Use Senator, Attorney, and Preacher)
5. Programming project 10.4 of Chapter 10:
    Rewrite the Sorting class so that both sorting algorithms put the values in descending order. Create a driver class with a main method to exercise the modifications.

You may use any of the code in the source files posted on Blackboard.