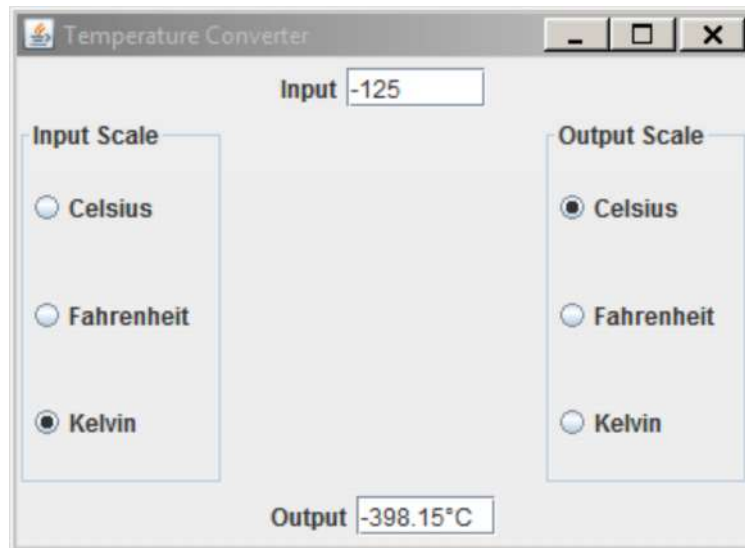


CSC 7200
Week 3 Programming Assignment

Java GUI Development

In this programming assignment, you'll write a Java GUI application that will do temperature conversions between the Celsius, Fahrenheit, and Kelvin temperature scales. The GUI display should look something like the following:



Your program must meet the following requirements:

1. **Do not use any of the GUI editing capabilities of NetBeans or Eclipse for this assignment.** Do all the GUI layout work based on what you have learned in class in the last 2 weeks.
2. The GUI and event handling setup should be done in the constructor of your GUI class or in private methods called from the constructor.
3. The display must have a label and JTextField where the user inputs a value which must appear in the upper part of the frame as shown above.
4. There should be a set of 3 radio buttons which indicate the input scale of the value to be converted. The 3 input scale buttons must be vertically aligned on the left side of the display as shown above.
5. There should be a set of 3 radio buttons which indicate the output scale to be converted to. The 3 output scale buttons must be vertically aligned and appear on the right side of the display as shown above.
6. Event handling must be setup so that selection of any input or output button causes an event which triggers the event handling code to determine which of 9 possible conversions is needed.

- http://en.wikipedia.org/wiki/Temperature_conversion

- Ensure you test your conversion formulae and the error case handling

- Screenshots of the running program
 - Ensure the screenshots show at least 2 different conversions and 1 error case being handled
- Source Code for all classes
- Paste Screenshots + Source Code into a single DOC/DOCX file

Program 1	120 pts.
Screenshots + Source Code	30 pts.

Total 150 pts.

*** Program1:

- Doesn't inherit from JFrame class: -15
- GUI/event handling not done in constructor (directly or via private methods): -15
- Don't use inner class for event handling: -15

- Input JTextField not used: -9
- Input JTextField not in upper part of GUI: -3

- Output JLabel/JTextField not used: -9
- Output JLabel/JTextField not in bottom part of GUI: -3
- Output not formatted to 2 digits after decimal: -6
- Output doesn't show new result only: -6

- Event-handling not setup for selection of any input or output button: -9
- Event-handling not setup for hitting enter in input JTextField: -9

- Separate class not used for temperature conversions: -9
- Doesn't have 6 static methods, 1/possible conversion: -6/each

- Radio buttons not vertically aligned: -9
- Things don't work in general: -6/instance
- No screenshots: -30