

CSE1100 — Object Oriented Programming

Assignment 8

October 31, 2022

Assignment

In this assignment we're going to refactor and improve some things in the application. To do this we will make use of different features Java has to offer.

Assignment 8.1

- Ensure that the list of jobs is neatly sorted on `Date`, so that whenever option 1 is used, the items will be printed in chronological order by their date. To do this, you can implement the interface `Comparable<Date>` in the class `Date`.
- Convert the *switch case* in your main class, to a *switch expression* in case you had not implemented it that way yet.
- Since the class `Address` doesn't have any methods that change the address, and it is not part of any inheritance hierarchy, this class is suitable to be converted to a **record**. Refactor the `Address` class so it becomes a record.

Feedback

You can request help from a teaching assistant while performing the assignments. Also, once you feel your solution to the above assignments is complete, you are strongly encouraged to let a TA sign off your solution. Before you do so, please make sure you adhere to the rules stated in the lab manual (format your code properly, make sure the unit tests run successfully, etc.) Of course, feel free to ask a TA for advice if you need help with this.

Use the following checklist and discuss it with the TA when signing off:

✓	Description
	Code formatting is according to the rules of the trade, there are no CheckStyle warnings or errors.
	Each method has comments in Javadoc style.
	Each class in this assignment has an <code>equals</code> & a <code>hashCode</code> method.
	Each method (apart from the main method) is tested with 100% line coverage through jUnit tests.
	The number of asserts per unit test method is limited (preferably 1)