CSC 115 Lab#1 Exercise writeup

During Lab#1 week, you will be completing a programming exercise that you will hand in through conneX. For the sake of the automated marking system, please call this file "`Sample.java`". Note that the exercise will be assessed, but it will have no effect on your overall points for this course.

Requirements and steps

(1) Create a simple java source code file, called `Sample.java`
   - Do not duplicate the demo code done in the lab.

(2) Submit it through conneX.
   - All of the necessary steps will be done during your regularly scheduled lab this upcoming week.
   - The lab instructor and your fellow students will be helping everyone to accomplish this task.

Assessment

The source code will be assessed by a program which will look for the following:

- The single java file compiles as a Java file.
- It must contain at least 2 constructors, 2 data fields, a `toString` method and a `main` method.
- The keyword *static* is only used in relation to the `main` method.
- The running code produces at least 3 lines of output.

The assessment script will give a Pass or Fail depending on the results. Note that a Pass is not an indication that everything is perfect, the intention is to reward effort, and give enough feedback so you can seek guidance if you see that you can benefit from it.

Purpose

This exercise is meant to get you through the creation, compilation and testing of a basic class file in Java. We understand that you may not have had any experience with Java or Object-oriented programming, so this is basically a no-stress introduction to get you

started. We also want you to experience the process for handing in assignments, which are handled in a similar fashion.

We make the following recommendations for you to get the most from this exercise:

- Note that the primary role of the automated tester is to give you feedback on the test results. Pass/fail is meant to be an indicator of how well you are doing.
  - ⋆ Programming in any language mostly requires *logic*. As you progress, pay close attention to this logic.
  - ⋆ It is much better to do a few methods well with full understanding, than to rush through all of them with little understanding at all.
- Do as much as you can during the lab time. You do not need to finish it, but while you are there, the lab instructor can give you helpful feedback.
- Do your own work.
- Get help and give help to your colleagues (that means looking at each other's code, and offering advice). Just passing a copy of something that works is not helpful at all.
- Use techniques and data types as recommended in the lab. There may be "better" ways to do things, but the exercise is created with the purpose of helping you improve your skills and do well on the assignments.
- If you are struggling, please take this to mean that you need to seek help. It is best to do this earlier in the course, as the exercises and assignments are cumulative.

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