Summary

In this practical you will analyze various Java programs and modify them to fix the errors and to implement small new features to the program. This practical assignment is designed to help you review the latest material that was covered in the course.

Analyzing and Modifying the Given Programs

In the shared repository inside “practical10/programs” directory, find three Java programs. Study each program and make sure you understand what each program is attempting to do. Pay a close attention to the programs, where the methods are written in and called from the same class. For example, `printOne` method in the `CallingMethodsInSameClass` class is called from `CallingMethodsInSameClass` class. `printOne` is a static method, which allows us to call it without creating an instance of the object first. To call the methods from within the same class, you just specify the method name and parameters if any (as is done with the `printOne` method); if you call static methods from another class, you need to specify the class name then use a dot operator followed by the method name (e.g., `Math.pow(4,8)`).

All of the given programs contain one or more errors, which may be compile-time errors found when you compile the program, or run-time errors found when you run the program. Locate all of the errors and fix them to get all of the programs to compile and run.

Next, find `// TO DO:` comment lines in each program and add Java statements to satisfy the tasks specified in the `// TO DO:`. Compile and run each modified program and save the output.

Completing the Practical Assignment

To finish this assignment and earn a “checkmark”, you should submit all three modified files in your Bitbucket repository by using appropriate git commands.

General Guidelines for Practical Sessions

- **Submit Something and Update Your Repository Often!** Your grade for this assignment is a “checkmark” indicating whether you did or did not complete the work. Remember to submit something to the Bitbucket repository using the appropriate git commands.

- **Review the Honor Code Policy on the Syllabus.** Remember that while you may discuss your work with other students in the course, code that is nearly identical to, or merely variations on, the work of others will be taken as evidence of violating the Honor Code.