CSE2142 Software Development Lab

Mock Exam

Download project file from the following git repository

<https://github.com/Dev275x/student-list>

by executing following command

git clone <https://github.com/Dev275x/student-list>

or

git clone [git@github.com:Dev275x/student-list.git](mailto:git@github.com:Dev275x/student-list.git)

In case you write the code by yourself instead of downloading, you need to initialize a git repository on your project. You should create git branch for every step with the name of the step, work on that particular step, commit the code with appropriate commit message and finally merge your branch to the master. For better understanding, write the commit message same as the task on each steps. And check every time you change something, you didn’t break anything and it matches the output.

1. Update code style for better consistency.
2. Application now terminates early if the number of arguments passed into it is wrong, fix it.
3. Makes improvements to variable names
4. Refactors duplicate file read and write logic into methods
5. Replaces string literals with constants, storing those constants in a new class called Constants.java
6. Remove Temporary variables
7. Eliminates the ‘done’ control-flow variable. Adds better response for search operation.
8. Simplifies the logic behind the count operation
9. Adds handling for case when user enters invalid arguments
10. Add more comments and makes more naming improvements.

**CSE2142: Software Development Lab**

Resources

[Writing Professional Code](https://courses.edx.org/courses/course-v1:Microsoft+DEV275x+2T2019/course/) (Online Course)

Module 1 | Elements of Professional Code

* Introduction
* Setup
* Source Control with **Git and GitHub**
* Write it up with Markdown

Module 2 | Communicate With Code

* Introduction
* **Consistency and Naming**
* **Code Refactoring**
* **Clean up Variables and Strings**
* Simplify

Optional: **Unit Test (Junit5 for Java)**