

Assignment 2

CSc 210 Fall 2017

Due September 14th, 8:00 pm MST

Introduction

We have started delving into the world of Java in our lectures. This assignment has some basic programming exercises that will be solved using Java.

On most assignments you will be turning in your code via github classroom. This assignment is different because you will turn in *some* of your code through the CodeStepByStep website. This assignment will hopefully get you acclimated with their interface so exercises assigned there in the future can be finished easily.

Note: To do the first part of this assignment, you must make sure that your machine you are working on has the Java 8 JDK installed. Check out the [resources page](#) on our class page for more info.

Specification Part I: Running Java (15 points)

For this part of the assignment, you will simply be running a java program. First, get your own private repository at the github classroom assignment link:

<https://classroom.github.com/a/RSpuDBBD>

Once your repository is finished being set up, clone it to your machine. Your repository will have two files, Encrypt.java and encrypted.txt. This encryption program simply asks the user for their netid and creates a unique “hash code” based on that string. It then outputs this hash code to standard output.

Here is your task: compile the java program Encrypt.java and run it via a command line. Enter your netid when prompted and redirect the output of the program to the file encrypted.txt. The only contents of encrypted.txt should be the hash code produced, nothing else. If any extraneous output is produced by the program, make sure to remove it from the file.

Once you have done this, commit your changes and push it back up to your repo.

We will be grading this portion by running the sha256sum command on lectura with your netid as input. We will then check that what that command produces is the same as the contents of the encrypted.txt file.

Specification Part II: CodeStepByStep (15 points)

For this part of the assignment you will be completing exercises on CodeStepByStep which we will use to assign small Java exercises in the future. You will not be submitting any files directly. Instead, you will be using the CodeStepByStep website to finish programming exercises and have them graded through that application. The following steps detail what you must do.

1. First, you must go to the CodeStepByStep website and make an account. Make sure you list your organization as the University of Arizona so you can actually be assigned to our class. The following link will take you to the registration page and already fill out the organization field for you: [link](#)
2. The next step you must take is adding yourself to our class. Once you are logged into and verified with your account, go to the home page for CodeStepByStep. There should be four links towards the top of the page, click the "My Courses" link. Once on the page, add yourself to our course, CS 210 Fall 17.
3. At this point you have successfully setup your account. Make sure you added yourself to our classroom, that's the only way we will be able to tell if you actually complete assigned exercises. If you don't do this, you may miss out on a lot of points.
4. Now, part of this assignment's grade will be doing some Java exercises. Go back to the website's home page and click on the "Start Practicing" link towards the top of the page. The following exercises must all be completed, passing all test cases, to earn credit for this assignment:
 - **Java->console output->HelloWorld**
 - **Java->console output->FearTheTree**
 - **Java->console output->Receipt**
 - **Java->expressions->expressionsNumbers1**
 - **Java->loops->starsPrint**
5. That's it! Once you have completed all the listed exercises such that you pass all the test cases, you should be complete.

Miscellaneous

Part of this assignment is submitted through github. This may be a new idea to some students, so make sure you understand how it works and all the correct files are up to date in your repo before the deadline.

Remember, do not cheat! Refer to the syllabus and first lecture for more information.