Introduction to Computer Science 2

Lab 6: Exception Handling and Streams

Learning Goals:

- · To learn how to use exception handling.
- · To learn how to process streams and files.

Exercise 1 (3 points)

Write a program that asks a user for a file name and prints the number of characters, words, and lines in that file.

Exercise 2 (3 points)

Write a program Find that searches all files specified on the command line and prints out all lines containing a reserved word given as the first parameter. For example, if you call:

```
java Find ring report.txt address.txt Homework.java
```

Then the program might print:

```
report.txt: has broken up an international ring of DVD bootleggers address.txt: Kris Kringle, North Pole address.txt: Home Simpson, Springfield Homework.java: String filename;
```

Exercise 3 (4 points)

You should modify the BanAccount class to throw an illegalArgumentException when the account is constructed with a negative balance, when a negative amount is deposited, or when the amount that is not between 0 and the current balance is withdrawn. Write a test program that causes all the three exceptions to occur and that catches them all.

Honor code, coding style, and deliverable:

Try to solve the exercises with what you already know. You are welcome to expand your program to do extra things but they are not mandatory.

Plagiarism is not allowed! We will run sophisticated software that automatically detects similarities on source code among students. All plagiarism incidents will be immediately reported to the Board of Examiners

Submission!

Submit your java files to Canvas.

Ask your instructor in case there is a problem with your submission.

DO NOT SEND SUBMISSIONS VIA EMAIL YOUR LAB WILL NOT GET GRADED!