# CSCI 101 Programming I

## Lab 10

Create a directory in your labs directory named **lab10**. Write a program in a file named **Lab10.java** that satisfies the following requirements **in the order as stated**.

- The program asks the user to enter in 10 integers, reads the integers from the keyboard and writes them as a comma separated list to a file named **numbers.txt**.

- The program asks the user to enter in 10 strings, reads the strings from the keyboard and writes them as a comma separated list to a file named **strings.txt**.

- The program asks the user to enter in 10 decimal numbers, reads the decimal numbers from the keyboard and writes them as a comma separated list to a file named **decimals.txt**.

- The program asks the user to enter in 10 characters, reads the characters from the keyboard and writes them as a comma separated list to a file named **chars.txt**.

- The program reads the integers in **numbers.txt** and stores them in an array named **arr1**.
- The program prints to the screen the elements in **arr1** on a single line.
- The program then computes the sum of the values in **arr1** and prints "**Sum:** " followed by the sum.

- The program reads the strings in **strings.txt** and stores them in an array named **arr2**.
- The program prints to the screen the elements in **arr2** on a single line.
- The program then determines the length of the longest string in the **arr2** and prints "**Longest:** " followed by all of the strings in the array that have the longest length.

- The program reads the decimal values in **decimals.txt** and stores them in an array named **arr3**.
- The program prints to the screen the elements in **arr3** on a single line.
- The program computes the mean average of the values in **arr3** and prints "**Mean average:** " followed by the mean average.

- The program reads the characters in **chars.txt** and stores them in an array named **arr4**.
- The program prints to the screen the elements in **arr4** on a single line.
- The program counts the number of times the character at index 0 in **arr4** occurs elsewhere in the array and prints "**Count:** " followed by the count.