Programming Assignment 6

- **Due** Tuesday by 12pm

- **Points** 100

- **Submitting** a file upload

- **File Types** java

Chapter 19 programming challenge 1 - Word Set

Write an application that reads a line of input from the keyboard, and then displays each unique word that was entered, sorted in ascending order. You can do this by tokenizing the line of input and adding each token to an appropriate Set object.

The application you write should be a stand-alone console application. That is, it's contained within a single Java class that includes a public static void main method.

Chapter 19 programming challenge 3 - Employee Map Class

Create a Java class named Employee that stores an employee's ID number and and name.

Create a Java class named EmployeeMap with the following public methods:

- add an Employee object to the collection
- copy an Employee object from the collection
- remove an Employee object from the collection
- return a copy of an Employee from the collection
- return a boolean value indicating whether or not an Employee object was found in the collection

The Employee Map class should allow you to lookup Employee objects given an employee ID number. Create an application to demonstrate the classes.

Chapter 19 programming challenge 5 – Prime Number List

A prime number is an integer (other than 1) that is only evenly divisible by itself and 1. For example, the number 5 is prime because it can only be evenly divided by 1 and 5. The number 6 however is not prime because it can be divided evenly by 1, 2, 3, and 6.

Write an application that calculates and stores the first 50 prime numbers (starting at 2) in a java LinkedList. Use an iterator to display the contents of the the list, 10 number to a line.

What to turn in

When you are finished, upload your Java files to canvas.