**Homework 2A**

**Due October 10**

Write a JDesktop application that has the following menu structure.

File Find About

Where

File->Open (uses JFileChooser to read in the file name)

->Exit closes the program

Find->Word Count (to include number of times a word appears)

->File Stats (to include number of words, number of characters, number of lines)

->Find numbers

->Phone Numbers

->Social Security Numbers

About->Version (displays version number, date, author)

When Find->Word is selected an internal frame will display that allows the user to input the word to search for. When the submit button is clicked, the count of the word appears in a text field.

When Find->Stats is selected an internal frame will display that shows the number of words, number of characters, and number of lines in the file.

When Find->Phone Numbers is selected an internal frame will display that prints all phone numbers found in the file to a text area.

->Social Security Numbers is selected an internal frame will display that prints all social security numbers found in the file to a text area.

(Must use regular expressions for finding these items.)

When About->Version is selected a showMessageDialog box with version number and date and author is displayed.

The program will run on one file for File Stats and Word Count and a different file for phone numbers and social security numbers. You will have to create your own files for test purposes.

Name the application *Manipulation.java* and upload to BB. Do not turn in text files. You program will use my text files.