* The purpose of this lab is to store text messages in an efficient method.
  + The goal is to not store the same word, from all of the messages, twice.
  + In class, we talked about storing the words in 1 array, and other info in 3 other arrays.
  + If you have a different technique, by all means implement it.
* Submit the Java file to the appropriate D2L submission area.
* Create a comment header, at the top of the document, stating information about this lab. Include:
  + Your name
  + Course number (CSC242-01)
  + Week lab was assigned.
  + One- line description of the lab

Program Requirements

1. Name the class **“CSC242\_MessageMapping”.**
2. Input: This will come from a text file. Student will create the messages.
   1. File will contain at a minimum of 20 messages.
   2. Messages shall contain status information about a topic you are familiar with, for example:
      1. The alarm is set.
      2. The alarm is disabled.
      3. Check furnace emergency switch.
3. Processing
   1. Part1: Reading in the messages.
      1. Read messages form the text file.
      2. Parse the string and store each word into an array or arraylist.
      3. Have other arrays that keep track of (1) The words posn in the array, (2) The # of words in a message, and (3) The posn of the words for each message.
      4. Is part is finished when all messages have all of the words store into an array, with supporting indices stored in other arrays.
   2. Part 2: Retrieving a message.
      1. After messages are read in, ask use to enter the message number wish to retrieve.
      2. Validate the number.
      3. If valid, get the messages parts, put message together and display the message.
      4. Look and ask for different messages until user is finished.
4. Output
   1. After Part 1, display the array holding the messages, so we can see how the array were populated.
   2. Display the message the user asked for.

Deliverables

* Submit the java file to D2L.
* Also submit a text file that you created and tested your code against.