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Short Assignment 1b:  Design and Implement a JavaBean Object

Link to GitHub repository: <https://github.com/jaymeshaze/ShortAssignment_1b>

Approach to Design and Implementation

I setup the TextFileInfo class to be a set of simple, specific tasks. This helped me break down the process of the bean needing to do several things, but take it one step at a time. I utilized both Scanner and StringBuilder to take the text file and then break it into parts that I could use to evaluate for each data piece. I created a public fileInfo() method that called the other methods to calculate out each piece and then display the results. This allowed me to setup the other methods as private, and to be able to manipulate the text file data appropriately and store the calculated data into the variables. Hopefully, this makes implementation of this bean very simple for anyone that may want to use it. The wordCount(), charCount() and numSum() methods all update their respective variable, and then those variables are displayed in a println call from the fileInfo() method.

I did find a simple method on StackOverflow that allowed me to have a String evaluated to see if it is Numeric in value, so that a sum could be calculated. This is not the most memory conscious way to accomplish this. However, it seemed the best option in this case, without the need to import a separate API (like Apache).

The Main class creates a test run of the TextFileInfo() bean and uses a wordfile.txt file to evaluate the results. In my tests, the results came back positive, with no errors.

Screenshot showing successful execution: