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| SDLC Assignment Java Text Analyzer Program Version 1.0 |  |
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|  | 9/5/2022Software Development 1 |
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**Requirements/Planning**: Write a Java text analyzer program that reads a file and outputs statistics about that file. It should output the word frequencies of all words in the file, sorted by the most frequently used word. The output should be a set of pairs, each pair containing a word and how many times it occurred in the file.

**Comments**: Any word file can be used in the projects source file to be read from and written to but for this project we will be reading and writing to “The Raven” poem by Edgar Allan Poe.

**User Design:** The user will interact with the text analyzer program through a JAVA IDE. For this example, we will be using a Java IDE called Eclipse. The user will download and run the Eclipse IDE and place the text document that they want to be analyzed into their source folder that contains all of the project’s files. Once the user verifies that their text document is in their folder that contains the project files, they will copy over the code from “wordanalyzer.java” into Eclipse and hit “Execute”. Afterwards, they will go back into their text file which will now contain newly added lines that contains the word, along with its respective count. The count of the word is the number of times the word was used and or read in the text file. The program will also output the counted words in descending order with the word that was counted the most at the top (descending order). The newly added lines will show up below their original text file. I also added a space between each line for the output so it can be easily read in the .txt format.

**Construction**: Because of the simplicity of this program, the code will be programmed inside the Java main() Method. Displayed below is a graphical representation of the constructed word analyzer program:

**Cut Over**: The software has been tested and we are now ready for user training and the deployment of the software if need be. The software has been tested several times with different text files and is deemed full functionaly and operable.