**In order to run the application, you must have ANT installed and configured**

**To compile type the next lines in the command line (in the directory where all the files are):**

1. ant compile
2. ant jar

**CLI syntax for the application:**

java –jar run.jar [-option][arguments] [file1.txt] [file2.txt]…

Options & arguments:

-graph Create a graph from the given files

-help Display command line options

-pr Calculate PageRank values for a graph generated from files

-tf document word Calculate TF value for a word in a given file

-ta (word1 OR/AND word2) Run Threshold Algorithm for a given set of words & documents and display 3 most relevant documents with their TA scores

Part 1:

java –jar run.jar -graph file1.txt file2.txt…

This prints a graph represented by a list of the vertices and their edges

Part 2:

java –jar run.jar -pr file1.txt file2.txt…

This prints the PageRank of each website (file) and the execution times in milliseconds

Part 3:

java –jar run.jar -tf [file1.txt] [word]

This prints out the TF score of the given word in the given document

Part 4:

For OR operator:

java –jar run.jar –ta (word1 OR word2 OR word3…) [file1.txt] [file2.txt]...

For AND operator:

java –jar run.jar –ta (word1 AND word2 AND word3…) [file1.txt] [file2.txt]...

This will print out the top 3 websites most relevant to the given arguments and their TA scores