Executing CountTxt

Brief Overview

The purpose of the java program is to send a *.txt* file from a server on request from a client and compute a list of the files' ten most common words and the number of occurrences. The file is set to be *islands_in_the_stream.txt,* which contain the lyrics from the song Islands in the Stream by Dolly Parton and Kenny Rogers. The basic structure of this program is the following:

- When Client.java is started, it connects to the server and requests the file *islands_in_the_stream.txt*.
- The server reads the file from the disk of the computer and sends it to the client.
- The Client then reads the file, count the words, and displays the ten most frequent word and their respective occurrences.
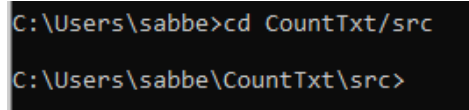
How to Run the CountTxt-Program

Below is a step-by step instruction of how to execute the program and answer the long sought-after question of "what are the ten most common words in Island in the stream?".

- Open two terminal windows (Swedish Windows10 : Kommandotolken). One is designated to be the server, and the other one will be the client.
- Use the command `cd` to go to the folder where Client.java and Server.java is stored.
  Example: `cd folder/subfolder/CountTxt/src`
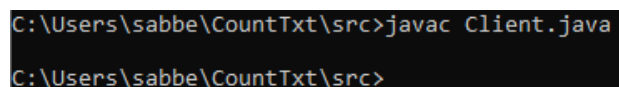 It should look similar to the figure below in both terminal windows:

Figure 1Expected results

- Once in the correct directory, the code needs to be compiled. This is done by entering the following commands:
  Terminal Window 1 : `javac Server.java`
  Terminal Window 2 : `javac Client.java`

Figure 2 Expected results

- Now you can start the program. Begin by entering `java Server.java` in terminal window 1. Then enter `java Client.java` in terminal window 2.

```
C:\Users\sabbe\eclipse-workspace\CountTxt\src>java Client.java
Most Common words in file:

1 : 'we' occurs 19 times
2 : 'ah-ha' occurs 12 times
3 : 'to' occurs 11 times
4 : 'in' occurs 11 times
5 : 'and' occurs 10 times
6 : 'no' occurs 10 times
7 : 'the' occurs 10 times
8 : 'one' occurs 10 times
9 : 'you' occurs 8 times
10 : 'with' occurs 8 times
```

Figure 3 Expected output

Note

- The file *islands_in_the_stream.txt* must be stored in the same folder as *Client.java* and *Server.java.*
- The program cannot be executed unless outside the correct directory. Hence, be cautious when using the `cd` command and choosing directory.
- Java must be installed on your computer.

If you have further questions, please contact the developer at:

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