

Coding Bootcamp

Weekly Project 1 - Individual

Definition

You are required to build a console application which accepts two arguments, the first defining a path to a text file (.txt) while the second should be one of the following commands:

- wc: when the user passes the particular string as the second argument, the application will count and display the total number of words found in the text file.
- find: when the user passes the particular string as the second argument, the application will ask the user to enter a word to search for in the text file. The application should keep count of all occurrences and when the whole text has been parsed, it should display the result to the user.

After successful completion of any of the aforementioned commands, the result should be appended to a text file named "wordcount.txt", in the following format:

Date	Time	Command	file	Result
for example:				
27/06/2018	20:13:08	WC	clouds.txt	2137
27/06/2018	20:20:16	find	clouds.txt	cloud:39

The file should be created during the first execution of the program, at the current directory (the directory from where the application is run).

In order to check the correctness of your application, use as input the text file "clouds.txt", which you can find in the folder "test_file" on CB6 Full 1 Teams. The exact same file was used in the following application executions.

1st execution: The user runs the program passing less than 2 arguments.

```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\npanagos\Documents\Projects\chapter07\bin\java javabook.Assignment07_02  

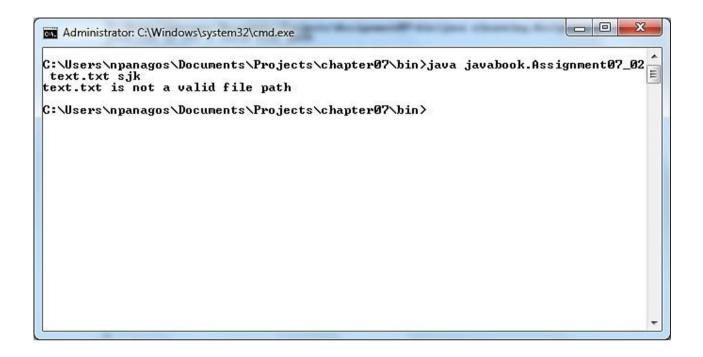
Elease provide valid arguments argument 1: path to text file argument 2: command to apply (wc or find)

C:\Users\npanagos\Documents\Projects\chapter07\bin>
```

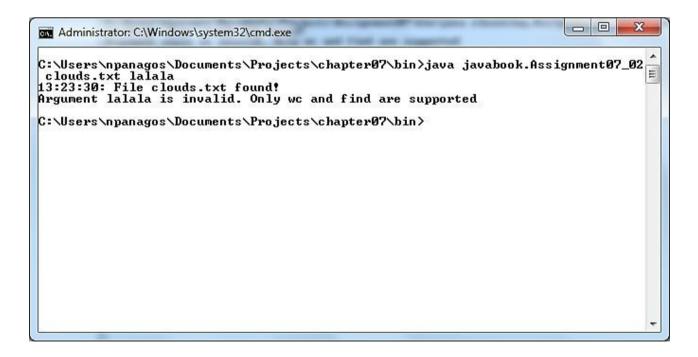
 2^{nd} execution: The user runs the program passing more than 2 arguments.



3rd execution: The user runs the program passing 2 arguments, but the first one does not correspond to a valid file path



 4^{th} execution: The user runs the program passing 2 arguments, the first corresponding to a valid text file path while the second one being an invalid command (that is not wc or find).



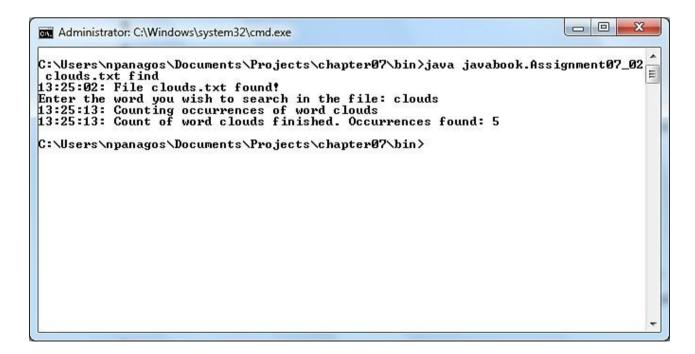
 5^{th} execution: The user runs the program passing 2 arguments, one translating to a valid text file path and the second being the wc command.

```
Administrator: C:\Windows\system32\cmd.exe

C:\Users\npanagos\Documents\Projects\chapter07\bin\java javabook.Assignment07_02 clouds.txt wc
13:24:31: File clouds.txt found!
13:24:31: Total word count started
13:24:31: Word count finished. Counted 2137 words

C:\Users\npanagos\Documents\Projects\chapter07\bin>
```

 6^{th} execution: The user runs the program passing 2 arguments, one translating to a valid text file path and the second being the find command.



Guidelines

- There are many ways to solve this particular problem and you are free to choose the one you like the most so long as you are getting the same output as the one in the screenshots. To implement find you may have to use Pattern and Matcher classes in combination with a regular expression.
- The easiest way to read an input file is with the help of a BufferedReader and the readline() method in a loop. Each line of text can be then broken down with the help of a Scanner object.
- The find command has a similar operation to the one of the popular browsers, that is it matches all occurrences, even if the character sequence we are looking for is part of a bigger word. For example, if the user chose to count the occurrences of the word 'on' in the following text, a correct implementation should count all character sequences highlighted in yellow color.

Introduction

Everyone has an opinion on what is cloud computing. It can be the ability to rent a

That makes your job easier as you are not required to write a complex regular expression.