	Type:	**Short Assignment**
LAB211 Assignment	**Code:**	**J1.S.P0077**
	LOC:	**100**
	Slot(s):	**2**

Title

Writing module to list and search file by content (CBDT project).

Background

NA

Program Specifications

Write the functions to list and search file by content including the following requirements:

1. Count number of occurrences of a word in a file.

2. Search file have content which contain inputted word.

3. Exit.

When the user chooses 1:

Require user enter a txt file include multiple rows. Enter a word and then count number of occurrences of this word in a file.

When the user chooses 2:

Require user enter in a folder's path. Then, enter a word and then list all file name which contain this word
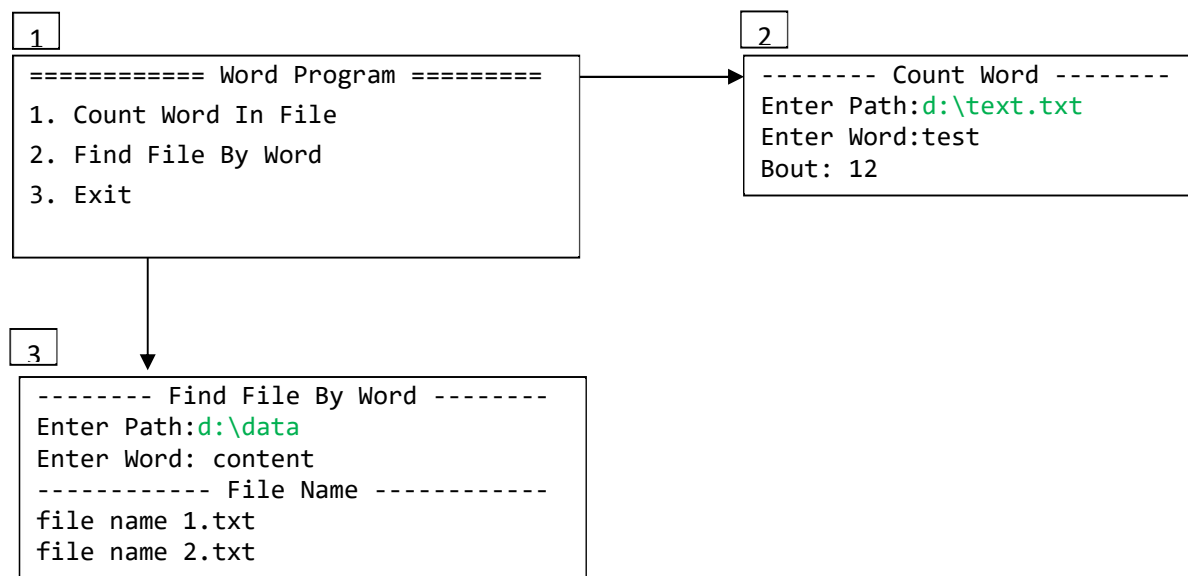
Function details:

Function 1: Display a menu and ask users to select an option.

- Users run the program. The program prompts users to select an option.

- Users select an option, perform **Function 2**.

Function 2: Perform function based on the selected option..

- Option 1: Counting words in a file.

   o Enter path of .text file

   o Enter a word to count

   o Output number of occurrences of a word in a file

- Option 2: Search files which contain entered word.

   o Enter the folder path.

   o Enter a word to search

   o Output name of files which contain entered word.

- Option 3: Exit the program.

Expectation of User interface:

1

```
============ Word Program =========
1. Count Word In File
2. Find File By Word
3. Exit
```

2

```
-------- Count Word --------
Enter Path:d:\text.txt
Enter Word:test
Bout: 12
```

3

```
-------- Find File By Word --------
Enter Path:d:\data
Enter Word: content
------------ File Name ------------
file name 1.txt
file name 2.txt
```

Guidelines

Student must implement methods
        countWordInFile
        getFileNameContainsWordInDirectory
in startup code.

Function 1: Counting words in file
- Implement function: public int countWordInFile(String fileSource, String word) throws Exception

    - Input:

        - fileSource: The folder's path.

        - word: Key words need search.

    - Output values:

        - number of occurrences of a word in a file.

        - List of exception.

Function 2: Search file follow the input
- Implement function: public List<String> getFileNameContainsWordInDirectory(String source, String word) throws Exception

    - Input:

        - Source: Folder's path.

        - Word: Key words need search.

    - Output value:

        - The list of found Files.

        - List of exception.