Assignment 3

Java Mastery Intermediate Methods, Collections, and Beyond

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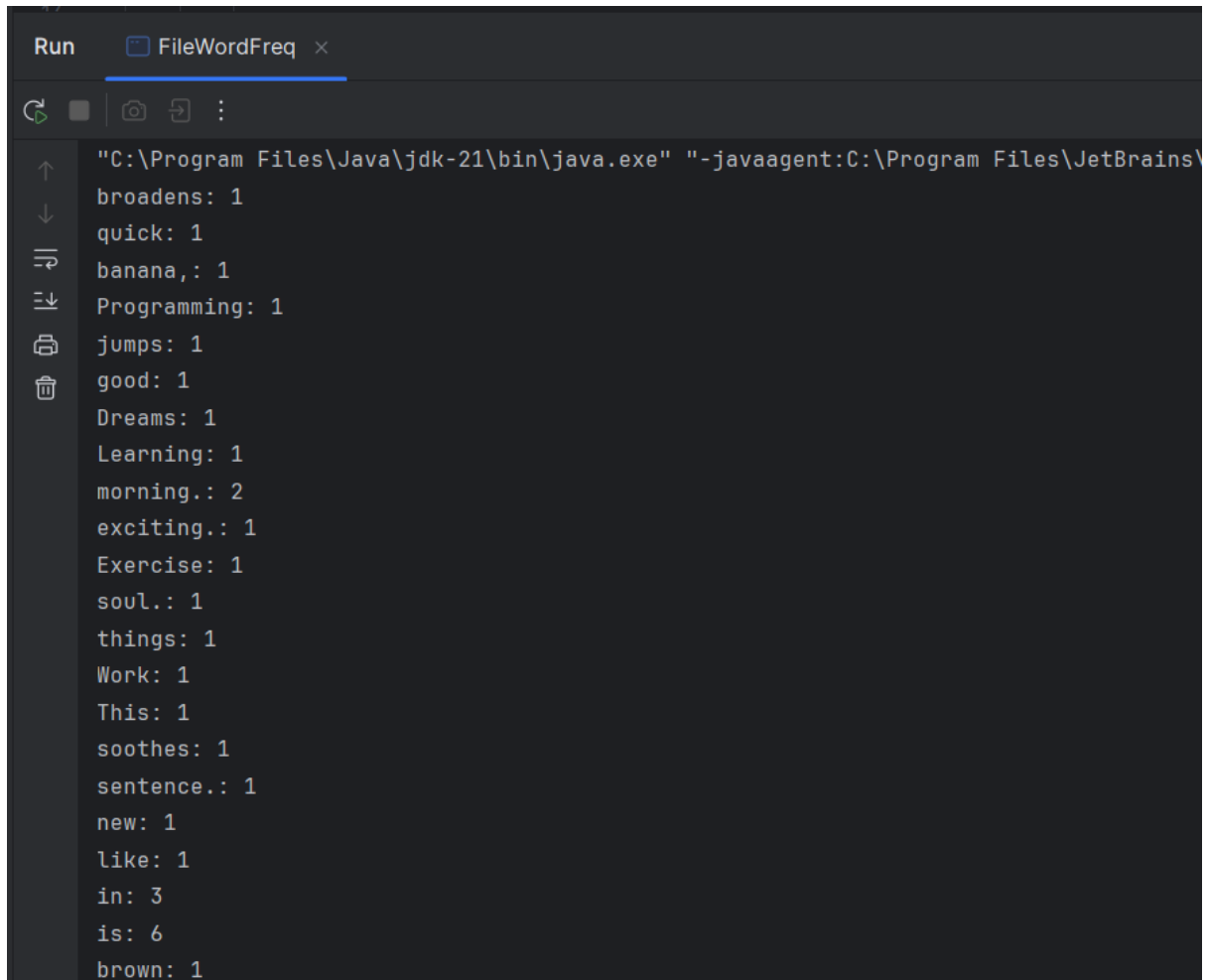
Problem statement:

Create a Java application that reads a text file, counts the occurrences of each word and displays the frequency of each word.

Code:

```java
import java.util.Scanner;
import java.io.File;
import java.io.FileNotFoundException;
import java.util.HashMap;

public class FileWordFreq {  new *
    public static void main(String[] args) {  new *

        try {
            File obj = new File( pathname: "D:\\v\\Amdocs_Preboarding\\src\\sample.txt");
            Scanner sc = new Scanner(obj);

            HashMap<String, Integer> mp = new HashMap<>();

            while(sc.hasNextLine()) {
                String[] words =  sc.nextLine().split( regex: " ");

                for(String word: words) {
                    mp.put(word, mp.getOrDefault(word,  defaultValue: 0)+1);
                }
            }

            sc.close();

            for(String key: mp.keySet()) {
                System.out.println(key + ": " + mp.get(key));
            }

        } catch(FileNotFoundException e) {
            System.out.println("Some error occurred!");
        }
```

Output:

```
Run        FileWordFreq ✕

"C:\Program Files\Java\jdk-21\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\
broadens: 1
quick: 1
banana,: 1
Programming: 1
jumps: 1
good: 1
Dreams: 1
Learning: 1
morning.: 2
exciting.: 1
Exercise: 1
soul.: 1
things: 1
Work: 1
This: 1
soothes: 1
sentence.: 1
new: 1
like: 1
in: 3
is: 6
brown: 1
```