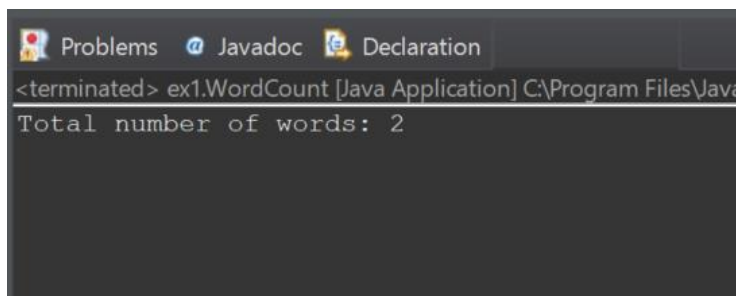


Java assignment -7

Topic: File handling in Java

1.Create a program that reads in a text file and counts the number of words in the file. The program should display the total number of words at the end.

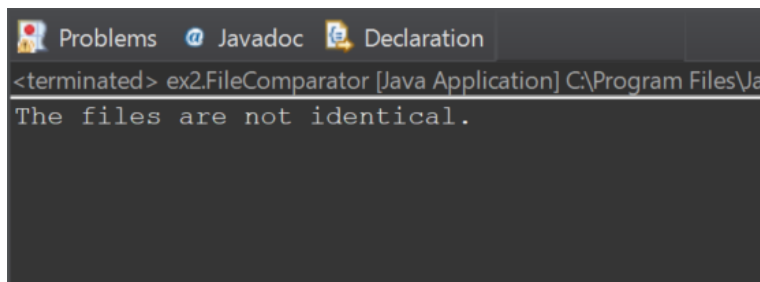
<https://codeshare.io/km8Y3V>



```
Problems Javadoc Declaration
<terminated> ex1.WordCount [Java Application] C:\Program Files\Java
Total number of words: 2
```

2.Create a program that reads in two text files and compares them to see if they are identical. The program should display a message indicating whether the files are identical or not.

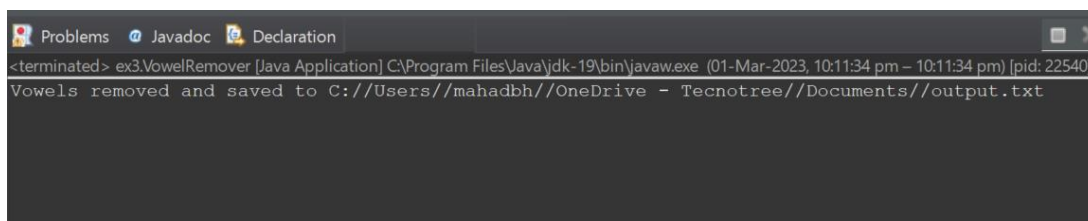
<https://codeshare.io/PdEIQP>



```
Problems Javadoc Declaration
<terminated> ex2.FileComparator [Java Application] C:\Program Files\Ja
The files are not identical.
```

3.Create a program that reads in a text file and creates a new file that contains the same text, but with all the vowels removed.

<https://codeshare.io/WdE688>



```
Problems Javadoc Declaration
<terminated> ex3.VowelRemover [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 10:11:34 pm - 10:11:34 pm) [pid: 22540]
Vowels removed and saved to C://Users//mahadbh//OneDrive - Tecnotree//Documents//output.txt
```

4. Create a program that reads in a CSV file containing student grades, and calculates the average grade for each student. The program should then write the results to a new CSV file.

<https://codeshare.io/vwjpnz>

```
22 // write the column headers to the output file
23 writer.write(line + ",Average\n");
24
25 // Read the remaining lines of the input file and calculate the average grade for each student
26 while ((line = reader.readLine()) != null) {
27     // Split the line into an array of strings, using commas as the delimiter
28     String[] data = line.split(",");
29
30     // Calculate the sum of the grades for the student
31     double sum = 0;
32     for (int i = 1; i < data.length; i++) {
33         sum += Double.parseDouble(data[i]);
34     }
35
36     // Calculate the average grade for the student
37     double average = sum / (data.length - 1);
38
39     // Write the student's name and average grade to the output file
40     writer.write(data[0] + "," + average + "\n");
41 }
```

5. Create a program that reads in a binary file containing image data, and displays the image on the screen.

<https://codeshare.io/wnvEQR>

```
6
7 public class ex5 {
8     public static void main(String[] args) {
9         String fileName = "C:\\Users\\mahadbh\\Downloads\\image.bin"; // Replace with your
10
11         try (FileInputStream fis = new FileInputStream(fileName)) {
12             byte[] imageData = fis.readAllBytes();
13             ImageIcon imageIcon = new ImageIcon(imageData);
14             JLabel imageLabel = new JLabel(imageIcon);
15             JFrame frame = new JFrame();
16             frame.add(imageLabel);
17             frame.pack();
18             frame.setVisible(true);
19         } catch (IOException e) {
20             System.err.format("IOException: %s\n", e);
21             return;
22         }
23     }
24 }
25
```