

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/r9lo1Y>

```
readtextfile.java ×
9      // TODO Auto-generated method stub
10
11
12
13      try {
14          // open the file for reading
15          FileReader fileReader = new FileReader("C:\\Users\\Mahadra\\OneDr:
16          BufferedReader bufferedReader = new BufferedReader(fileReader);
17          // initialize the word count to zero
18          int wordCount = 0;
19
20          // read each line from the file and count the words
21          String line;
22          while ((line = bufferedReader.readLine()) != null) {
23              String[] words = line.split("r+");
24              wordCount += words.length;
25          }
26
27          // close the file
28          bufferedReader.close();
29
30          // print out the total number of words
31          System.out.println("Total number of words: " + wordCount);
32      } catch (IOException e) {
33          e.printStackTrace();
34      }
35  }
36
Problems Javadoc Declaration Console ×
<terminated> readtextfile [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (05-Mar-2023, 9:17:33 am – 9:17:33 am) [pid: 186]
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/JbMVqZ>

```
comparetwofiles.java ×
1 package assignment7;
2 import java.io.BufferedReader;
3 import java.io.FileReader;
4 import java.io.IOException;
5
6 public class comparetwofiles {
7
8     public static void main(String[] args) {
9         // TODO Auto-generated method stub
10
11         //In file1 and file2 the Content is rachana
12         String file1 = "C:\\Users\\Mahadra\\OneDrive - Tecnotree\\Desktop\\Assignm
13         String file2 = "C:\\Users\\Mahadra\\OneDrive - Tecnotree\\Desktop\\Assignm
14         boolean identical = true;
15
16         try (BufferedReader reader1 = new BufferedReader(new FileReader(file1));
17             BufferedReader reader2 = new BufferedReader(new FileReader(file2))) {
18             String line1 = reader1.readLine();
19             String line2 = reader2.readLine();
20
21             while (line1 != null && line2 != null) {
22                 if (!line1.equals(line2)) {
23                     identical = false;
24                     break;
25                 }
26                 line1 = reader1.readLine();
27                 line2 = reader2.readLine();
28             }
29         } catch (IOException e) {
30             e.printStackTrace();
31         }
32     }
33 }
34
Problems Javadoc Declaration Console ×
<terminated> comparetwofiles [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (05-Mar-2023, 8:50:52 am – 8:50:52 am) [pid: 1052]
The files are 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/Ad1Jk8>

```
1  vowels.java ×
2
3  9
4
5  10 public static void main(String[] args) {
6
7  11 // TODO Auto-generated method stub
8
9  12
10 13 //In the input file content is ruchitha,shahshank are my close friends
11 14 String inputFile = "C:\\Users\\Mahadra\\OneDrive - Tecnotree\\Desktop\\A
12 15 String outputFile = "C:\\Users\\Mahadra\\OneDrive - Tecnotree\\Desktop\\
13 16 //After removing vowels in output file content is rchth,shhshnk r my cls frnds
14 17
15 18 try (BufferedReader reader = new BufferedReader(new FileReader(inputFile
16 19 BufferedWriter writer = new BufferedWriter(new FileWriter(outputFile
17 20 String line = reader.readLine());
18 21
19 22 while (line != null) {
20 23 String newLine = line.replaceAll("[aeiouAEIOU]", "");
21 24 writer.write(newLine);
22 25 writer.newLine();
23 26 line = reader.readLine();
24 27 }
25 28
26 29 System.out.println("Vowels removed from " + inputFile + " and saved
27 30 } catch (IOException e) {
28 31 System.out.println("Error reading or writing files: " + e.getMessage
29 32 }
30 33
31 34 }
32 35
33 36
```

Problems Javadoc Declaration Console ×
<terminated> vowels [Java Application] C:\Users\Mahadra\jdk-19\bin\javaw.exe (05-Mar-2023, 9:31:13 am - 9:31:14 am) [pid: 5096]
Vowels removed from C:\Users\Mahadra\OneDrive - Tecnotree\Desktop\Assignment 7\input.txt and sav

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/qPmb1Z>

```
1  csv.java
2
3  9 String inputFile = "input.csv";
4  10 String outputFile = "output.csv";
5
6  11
7  12 try {
8
9  13 // Create a new FileWriter object for the output file
10 14 FileWriter writer = new FileWriter(outputFile);
11
12 15
13 16 // Create a new BufferedReader object for the input file
14 17 BufferedReader reader = new BufferedReader(new FileReader(inputFile));
15 18
16 19 // Read the first line of the input file, which contains the column headers
17 20 String line = reader.readLine();
18 21
19 22 // Write the column headers to the output file
20 23 writer.write(line + ",Average\n");
21 24
22 25 // Read the remaining lines of the input file and calculate the average grade
23 26 while ((line = reader.readLine()) != null) {
24 27 // Split the line into an array of strings, using commas as the delimit
25 28 String[] data = line.split(",");
26 29
27 30 // Calculate the sum of the grades for the student
28 31 double sum = 0;
29 32 for (int i = 1; i < data.length; i++) {
30 33 sum += Double.parseDouble(data[i]);
31 34 }
32 35
33 36 // Calculate the average grade for the student
```

Problems Javadoc Declaration Console ×

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

<https://codeshare.io/vwjlqL>

