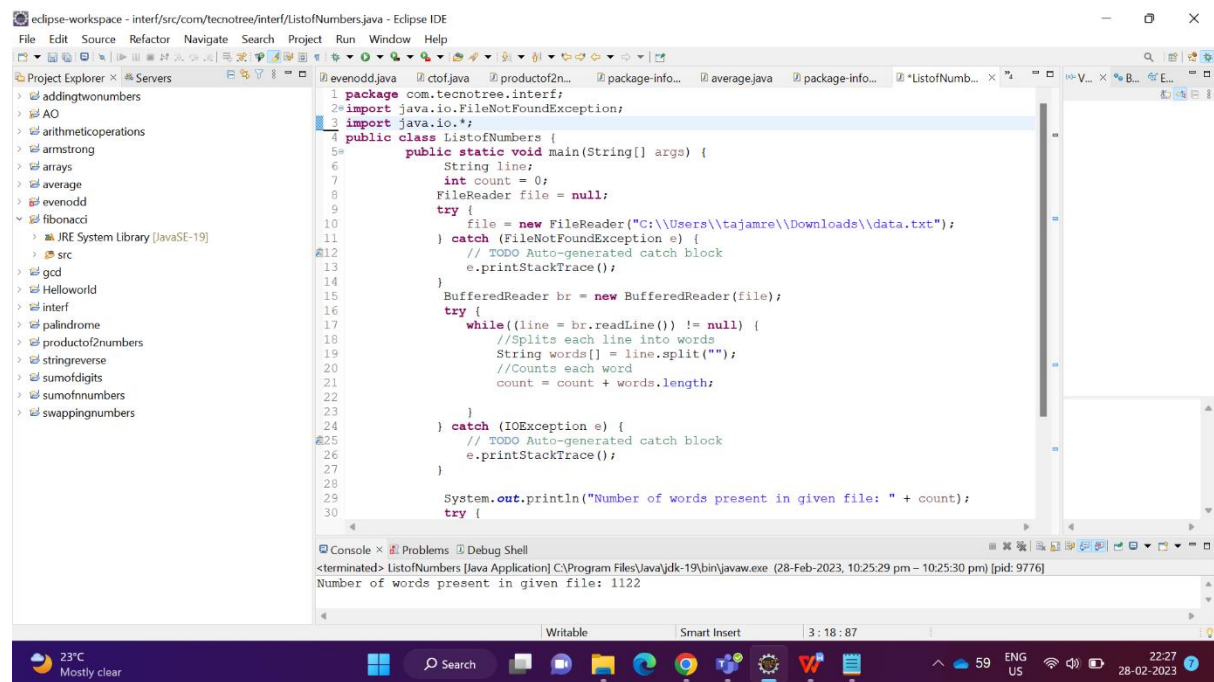


Java assignment -7

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.



```
1 package com.tecnotee.interf;
2 import java.io.FileNotFoundException;
3 import java.io.*;
4 public class ListofNumbers {
5     public static void main(String[] args) {
6         String line;
7         int count = 0;
8         FileReader file = null;
9         try {
10             file = new FileReader("C:\\Users\\tjajamre\\Downloads\\data.txt");
11         } catch (FileNotFoundException e) {
12             // TODO Auto-generated catch block
13             e.printStackTrace();
14         }
15         BufferedReader br = new BufferedReader(file);
16         try {
17             while ((line = br.readLine()) != null) {
18                 //Splits each line into words
19                 String words[] = line.split(" ");
20                 //Counts each word
21                 count = count + words.length;
22             }
23         } catch (IOException e) {
24             // TODO Auto-generated catch block
25             e.printStackTrace();
26         }
27         System.out.println("Number of words present in given file: " + count);
28     }
29 }
30
```

Console: ListofNumbers [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 10:25:29 pm - 10:25:30 pm) [pid: 9776]
Number of words present in given file: 1122

CODESHARE LINK: <https://codeshare.io/VZEn3O>

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.

```
5 import java.io.IOException;
6 import java.nio.file.Files;
7 import java.nio.file.Path;
8 import java.nio.file.Paths;
9 import java.security.MessageDigest;
10
11 public class ListofNumbers {
12     public static void main(String[] args) {
13         String filePath1 = "C:\\Users\\tajamre\\Downloads\\data.txt";
14         String filePath2 = "C:\\Users\\tajamre\\Downloads\\example.txt";
15
16         try {
17             Path path1 = Paths.get(filePath1);
18             Path path2 = Paths.get(filePath2);
19
20             byte[] file1Bytes = Files.readAllBytes(path1);
21             byte[] file2Bytes = Files.readAllBytes(path2);
22
23             if (MessageDigest.isEqual(file1Bytes, file2Bytes)) {
24                 System.out.println("The files are identical.");
25             } else {
26                 System.out.println("The files are not identical.");
27             }
28         } catch (IOException e) {
29             System.out.println("An error occurred while reading the files.");
30             e.printStackTrace();
31         }
32     }
33 }
34
```

Console: <terminated> ListofNumbers [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (28-Feb-2023, 10:38:28 pm - 10:38:28 pm) [pid: 9964]
The files are not identical.

CODESHARE LINK: <https://codeshare.io/QnE9OR>

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.

```
1 package com.tecnoteer.addtwo;
2 import java.io.*;
3 import java.util.Scanner;
4
5 public class RemoveVowels {
6     public static void main(String[] args) {
7         String inputFilename = "C:\\Users\\tajamre\\OneDrive - Tecnotree\\Documents\\input.txt";
8         String outputFilename = "C:\\Users\\tajamre\\OneDrive - Tecnotree\\Documents\\output.txt";
9         String vowels = "aeiouAEIOU";
10
11         try {
12             // Open the input file for reading
13             Scanner scanner = new Scanner(new File(inputFilename));
14
15             // Open the output file for writing
16             BufferedWriter writer = new BufferedWriter(new FileWriter(outputFilename));
17
18             // Read each line from the input file and remove the vowels
19             while (scanner.hasNextLine()) {
20                 String line = scanner.nextLine();
21                 for (char c : line.toCharArray()) {
22                     if (vowels.indexOf(c) == -1) {
23                         writer.write(c);
24                     }
25                 }
26                 writer.newLine();
27             }
28         } catch (IOException e) {
29             e.printStackTrace();
30         }
31     }
32 }
33
```

Console: <terminated> RemoveVowels [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 10:22:29 am - 10:22:29 am) [pid: 10360]
Vowels removed successfully.

CODESHARE LINK: <https://codeshare.io/vwig4W>

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.

CODESHARE LINK: <https://codeshare.io/OdE0eP>

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

CODESHARE LINK: <https://codeshare.io/eV6N37>