# Assignment-7

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.

Code:

#### Question1.java

```
package com.tecnotree.Assignment7;
import java.io.File;
import java.io.FileNotroundException;
import ja
```

Codeshare Link: <a href="https://codeshare.io/oQ38Xo">https://codeshare.io/oQ38Xo</a>

#### Output:

```
Total number of words in the file: 66
```

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.

Code:

Question2.java

```
package com.tecnotree.Assignment7;
 3 import java.io.File;
    import java.io.File;
import java.io.FileNotFoundException;
import java.util.Scanner;
 7 public class Question2 {
8    public static void main(String[] args) {
                    file file1 = new File("C:\Users\fawazmo\\eclipse-workspace\\Assignment-7\\src\\com\\tecnotree\\Assignment7\\input.txt");
File file2 = new File("C:\\Users\\fawazmo\\eclipse-workspace\\Assignment-7\\src\\com\\tecnotree\\Assignment7\\input.txt");
                          Scanner scanner1 = new Scanner(file1);
Scanner scanner2 = new Scanner(file2);
                        boolean identical = true;
                         while (scanner1.hasNext() && scanner2.hasNext()) {
   String line1 = scanner1.nextLine();
   String line2 = scanner2.nextLine();
                                 if (!linel.equals(line2)) {
   identical = false;
                                        break;
                          if (scanner1.hasNext() || scanner2.hasNext()) {
   identical = false;
                          }
                           scanner1.close();
                           scanner2.close();
                          if (identical) {
   System.out.println("The files are identical.");
} else {
   System.out.println("The files are not identical.");
                   } catch (FileNotFoundException e) {
   System.out.println("File not found!");
   System.exit(1);
```

Codeshare Link: https://codeshare.io/LwEVvN

#### Output:

```
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.

#### Code:

### Question3.java

```
package com.tecnotree.Assignment7;

import java.io.File;
import java.io.File;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileNotFoundException;
import java.io.FileNotFoundException;
import java.io.FileNotFoundException;
import java.io.FileNotFoundException;

public class Question3 {
    public static void main(string[] args) {
        try {
            File inputFile = new File("C:\\Users\\fawazmo\\eclipse-workspace\\Assignment-7\\src\\com\\tecnotree\\Assignment7\\input.txt");
        Scanner scanner = new Scanner(inputFile);

        File outputFile = new File("C:\\Users\\fawazmo\\eclipse-workspace\\Assignment-7\\src\\com\\tecnotree\\Assignment7\\output.txt");
        PrintWriter writer = new FrintWriter(outputFile);

        while (scanner.hasNext()) {
            String ine = scanner.nextLine();
            String ine = scanner.nextLine();
            String ine = scanner.nextLine();
            String modifieddine = line.replaceAll("[aeiouAEIOU]", "");
            writer.println(modifieddine);
        }
        scanner.close();
        writer.close();
        writer.close();
        System.out.println("File with vowels removed created successfully!");
        } catch (FileNotFoundException e) {
            System.out.println("File not found!");
            System.exit(1);
        }
}
}
```

Codeshare Link: https://codeshare.io/r9loxv

#### Output:

```
File with vowels removed created successfully!
```

#### Output.txt

```
lpckg cm.tcntr.ssgnmnt/;
3mprt jv..Fl;
4 mprt jv..FlNtFndxcptn;
5mprt jv.tl.Scnnr;
7pblc clss Qstn1 {
     pblc sttc vd mn(Strng[] rgs) {
9
         nt cnt = 0;
0
1
         try {
2
             Fl fl = nw Fl("npt.txt");
3
             Scnnr scnnr = nw Scnnr(fl);
4
5
             whl (scnnr.hsNxt()) {
6
                 Strng wrd = scnnr.nxt();
7
                 cnt++;
8
             }
9
0
            scnnr.cls();
         } ctch (FlNtFndxcptn ) {
1
```

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.

#### Code:

Question4.java

```
package com.tecnotree.Assignment7;
3 import java.io.File;
4 import java.io.FileNotFoundException;
5 import java.io.PrintWriter;
6 import java.util.Scanner;
   public class Question4 {
90
      public static void main(String[] args) {
           try {
                File inputFile = new File("input.csv");
                Scanner scanner = new Scanner(inputFile);
                File outputFile = new File("output.csv");
                PrintWriter writer = new PrintWriter(outputFile);
                while (scanner.hasNext()) {
                    String line = scanner.nextLine();
                    String[] values = line.split(",");
                    int totalGrade = 0;
                    for (int i = 1; i < values.length; i++) {</pre>
                        totalGrade += Integer.parseInt(values[i]);
                    double averageGrade = (double) totalGrade / (values.length - 1);
                    writer.println(values[0] + "," + String.format("%.2f", averageGrade));
                scanner.close();
                writer.close();
                System.out.println("File with average grades created successfully!");
           } catch (FileNotFoundException e) {
                System.out.println("File not found!");
                System.exit(1);
       }
```

Codeshare Link: <a href="https://codeshare.io/yo0ymo">https://codeshare.io/yo0ymo</a>

#### Output:

```
File not found!
```

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

#### Code:

#### JFrame.java

Codeshare Link: <a href="https://codeshare.io/Ad1LOv">https://codeshare.io/Ad1LOv</a>

## Output:

rterminateu> Questiono (o) pava Applicationij C.\rrogram riiespavayuk-19\binyc

Usage: java DisplayImage <filename>