

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.

```
<terminated> WordCount [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230201-1920\bin\java.exe -Xmx1G -Dfile.encoding=UTF-8 -jar C:\Users\riyazsy\p2\pool\workspace\WordCount\bin\WordCount.jar Total number of words: 1
```

<https://codeshare.io/dwQV3R>

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

```
<terminated> FileComparator [Java Application] C:\Users\riyazsy\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v2023
The files are not identical.
```

<https://codeshare.io/VZEMD3>

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.

```
<terminated> readandcreate [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\b  
Vowels removed from C:\Users\riyazsy\Downloads\input.txt and saved to C:\Users\riyazsy\Downloads\output.txt
```

<https://codeshare.io/8plw4d>

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/yo0vdq>

```

1 package assignment7;
2 import java.io.BufferedReader;
3 import java.io.FileReader;
4 import java.io.FileWriter;
5 import java.io.IOException;
6
7 public class ccy {
8
9     //public class CalculateAverageGrades {
10     public static void main(String[] args) {
11         // Set the input and output file paths
12         String inputFile = "input.csv";
13         String outputFile = "output.csv";
14
15         try {
16             // Create a new FileWriter object for the output file
17             FileWriter writer = new FileWriter(outputFile);
18
19             // Create a new BufferedReader object for the input file
20             BufferedReader reader = new BufferedReader(new FileReader(inputFile));
21
22             // Read the first line of the input file, which contains the column headers
23             String line = reader.readLine();
24
25         } catch (IOException e) {
26             e.printStackTrace();
27         }
28     }
29 }

```

Console × terminated> ccy [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe (Mar 3, 2023, 11

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

```

public class pgm7 {

    //public class prgm74 {

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        String inputFile = "image.bin";

        try {
            // Read in the binary data from the input file
            FileInputStream fileInputStream = new FileInputStream(inputFile);
            byte[] bytes = fileInputStream.readAllBytes();

            // Convert the binary data to a BufferedImage
            ByteArrayInputStream byteArrayInputStream = new ByteArrayInputStream(bytes);
            BufferedImage image = ImageIO.read(byteArrayInputStream);

            // Display the image in a JFrame
            JFrame frame = new JFrame();
            JLabel label = new JLabel(new ImageIcon(image));
            frame.getContentPane().add(label, BorderLayout.CENTER);
            frame.pack();
            frame.setVisible(true);

        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}

```

Console ×

<https://codeshare.io/OdEpQx>