Lab 22 – Assignment

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1)Write a Java program that reads an input file from the file system and outputs the content of the file character by character. Use FileReader.read() method to read characters from the file. At the end, print the total number of characters present in the file

```java
package com.wrapperclass.examples;

import java.io.FileReader;
import java.io.IOException;

public class FileCharacterReader {
    public static void main(String[] args) {
        // Provide the path to your input file
        String filePath = "d://charactertext.txt";

        try {
            // Create FileReader object
            FileReader fileReader = new
FileReader(filePath);

            int character;
            int characterCount = 0;

            // Read characters from the file
            while ((character = fileReader.read())
!= -1) {
                // Print each character
                System.out.print((char) character);
                // Increment character count
                characterCount++;
            }

            // Close the FileReader
            fileReader.close();

            // Print the total number of characters
```
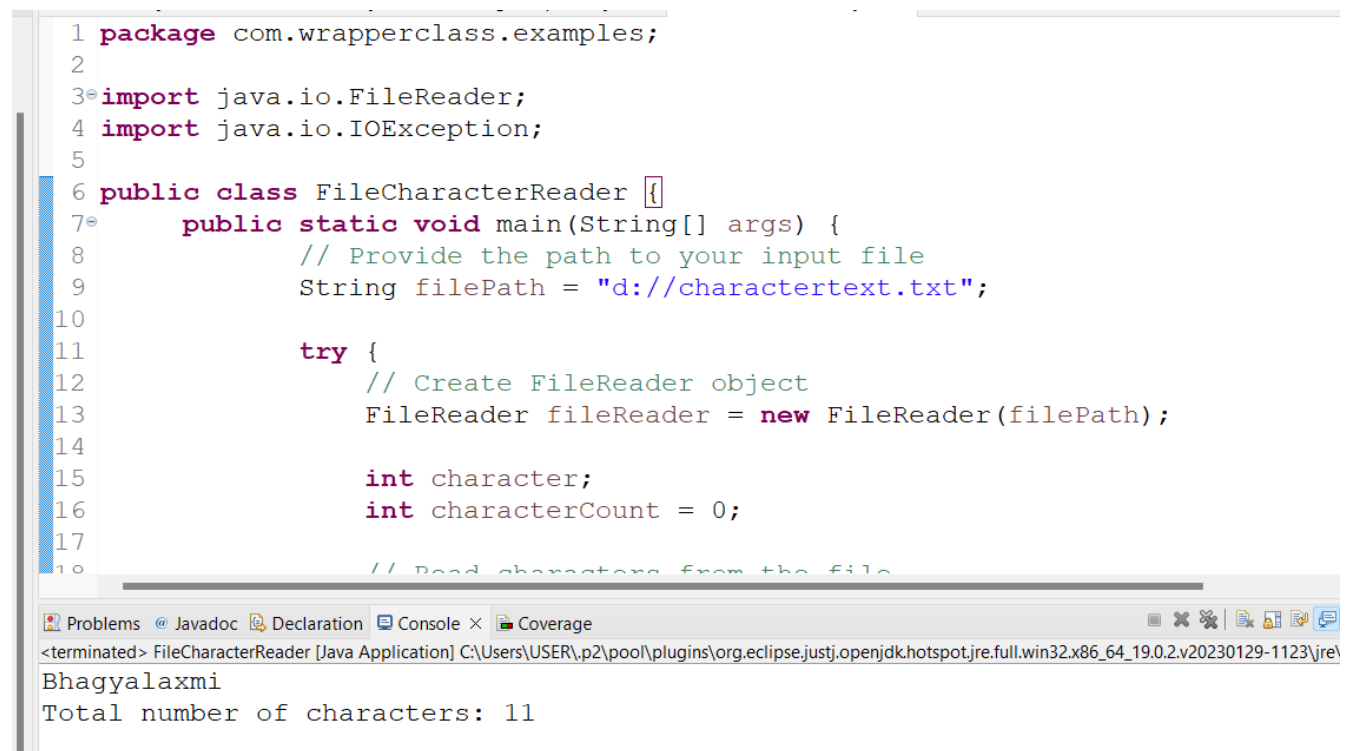
```
                System.out.println("\nTotal number of
characters: " + characterCount);

            } catch (IOException e) {
                System.err.println("Error reading the
file: " + e.getMessage());
            }
        }

}
```

Output:

```
 1 package com.wrapperclass.examples;
 2
 3⊖import java.io.FileReader;
 4 import java.io.IOException;
 5
 6 public class FileCharacterReader {
 7⊖     public static void main(String[] args) {
 8             // Provide the path to your input file
 9             String filePath = "d://charactertext.txt";
10
11             try {
12                 // Create FileReader object
13                 FileReader fileReader = new FileReader(filePath);
14
15                 int character;
16                 int characterCount = 0;
17
10              // Pond charactors from the file
```

Problems @ Javadoc Declaration Console × Coverage

<terminated> FileCharacterReader [Java Application] C:\Users\USER\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_19.0.2.v20230129-1123\jre\

```
Bhagyalaxmi
Total number of characters: 11
```