

```
1  import java.util.ArrayList;
2  import java.io.FileWriter;
3  import java.io.IOException;
4  import java.io.FileReader;
5  import java.io.BufferedReader;
6
7  public class CharString {
8      ArrayList<Character> string;
9      String fileName;
10
11     public CharString() {
12         string = new ArrayList<Character>();
13         fileName = "document.txt"; // Name of the file to write to
14     }
15
16     public void save(String givenCharacter, String givenFont, String givenColor, int givenSize) {
17         string.add(new Character(givenCharacter, givenFont, givenColor, givenSize));
18
19         try {
20             FileWriter writer = new FileWriter(fileName);
21             writer.write(this.buildString());
22             writer.close();
23         } catch (IOException e) {
24             e.printStackTrace();
25         }
26     }
27
28     public String buildString() {
29         String builtString = "";
30         for (Character character : this.string) {
31             builtString += character.getHeldCharacter();
32         }
33
34         return builtString;
35     }
36
37     public void load() {
38         try {
39             FileReader reader = new FileReader(fileName);
40             BufferedReader bufferedReader = new BufferedReader(reader);
41
42             String line;
43             while ((line = bufferedReader.readLine()) != null) {
44                 System.out.println("\n" + line + "\n");
45             }
46
47             bufferedReader.close();
48         } catch (IOException e) {
49             System.out.println("An error occurred while reading the file.");
50             e.printStackTrace();
51         }
52
53         for (Character character : this.string) {
```

```
54 |         System.out.printf("Char: %s\n", character.getHeldCharacter());
55 |         character.printCharacaterAttributes();
56 |         System.out.println("\n");
57 |     }
58 | }
59 | }
```