Experiment 9

Write a java program in which data is read from one file and should be written in another file line by line.

```
1 import java.io.BufferedReader;
2 import java.io.BufferedWriter;
3 import java.io.FileReader;
   import java.io.FileWriter;
   import java.io.IOException;
7
8
     * This program reads data from a source file and writes it to a destination file,
     * line by line.
9
10
11
    public class FileHandling {
12
        public static void main(String[] args) {
14
            String sourceFilePath = "input.txt";
15
            String destinationFilePath = "output.txt";
16
17
                 createSampleInputFile(sourceFilePath);
19
20
                 try (BufferedReader reader = new BufferedReader(new FileReader(sourceFilePath));
                      BufferedWriter writer = new BufferedWriter(new FileWriter(destinationFilePath))) {
23
24
                     String currentLine;
25
                     while ((currentLine = reader.readLine()) != null) {
27
                         writer.write(currentLine);
28
                         writer.newLine();
29
                     }
30
                     System.out.println("File copied successfully from '" + sourceFilePath + "' to '" + destinationFi
32
                }
             } catch (IOException e) {
35
                 System.err.println("An error occurred during the file operation.");
                 e.printStackTrace();
             }
        }
38
40
             \ensuremath{^{*}} Helper method to create a sample input file with some content.
41
             * @param filePath The path of the file to create.
42
             * @throws IOException If an I/O error occurs.
43
44
        private static void createSampleInputFile(String filePath) throws IOException {
45
            try (BufferedWriter writer = new BufferedWriter(new FileWriter(filePath))) {
46
                 writer.write("Hello World!");
47
48
                writer.newLine();
                writer.write("This is the second line of the file.");
49
50
                 writer.newLine();
                writer.write("Java file I/O is being demonstrated here.");
                 writer.newLine();
53
                 writer.write("Each line is read and written sequentially.");
                 writer.newLine();
55
            }
56
        }
57 }
```

