

Practical 13: write a java program which data is read from one file and should be written in another file line by line

```
package Utkarsha;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
/**
 * This program reads data from a source file and writes it to a destination file,
 * line by line.
 */
public class FileHandling {
    public static void main(String[] args) {
        String sourceFilePath = "input.txt";
        String destinationFilePath = "output.txt";
        try {
            createSampleInputFile(sourceFilePath);
            try (BufferedReader reader = new BufferedReader(new FileReader(sourceFilePath));
                 BufferedWriter writer = new BufferedWriter(new FileWriter(destinationFilePath))) {
                String currentLine;
                while ((currentLine = reader.readLine()) != null) {
                    writer.write(currentLine);
                    writer.newLine();
                }
                System.out.println("File copied successfully from " + sourceFilePath + " to " + destinationFilePath );
            }
        } catch (IOException e) {
            System.err.println("An error occurred during the file operation.");
            e.printStackTrace();
        }
    }
}

/**
 * Helper method to create a sample input file with some content.
 * @param filePath The path of the file to create.
 * @throws IOException If an I/O error occurs.
 */
private static void createSampleInputFile(String filePath) throws IOException {
    try (BufferedWriter writer = new BufferedWriter(new FileWriter(filePath))) {
        writer.write("Hello World!");
        writer.newLine();
        writer.write("This is the second line of the file.");
        writer.newLine();
        writer.write("Java file I/O is being demonstrated here.");
        writer.newLine();
        writer.write("Each line is read and written sequentially.");
        writer.newLine();
    }
}
```

File handling output:-

The screenshot shows a Java application window titled "FileHandling [Java Application] C:\Users\DELL\p2\po". The status bar at the bottom displays the message "File copied successfully from 'input.txt' to 'out'". The window contains a large, empty white area.

Input.txt file

The screenshot shows a code editor with three tabs: "FileHandling.java", "input.txt", and "output.txt". The "input.txt" tab is active, displaying the following text:

```
1 Hello World!
2 This is the second line of the file.
3 Java file I/O is being demonstrated here.
4 Each line is read and written sequentially.
5
```

Output.txt

The screenshot shows a code editor with three tabs: "FileHandling.java", "input.txt", and "output.txt". The "output.txt" tab is active, displaying the same text as the "input.txt" file:

```
1 Hello World!
2 This is the second line of the file.
3 Java file I/O is being demonstrated here.
4 Each line is read and written sequentially.
5
```