import java.io.\*;

import java.util.Scanner;

/\*\*

\* FileHandlingUtility demonstrates basic file operations: write, read, and modify.

\* Internship Task - 1 for CodTech

\*/

public class FileHandlingUtility {

private static final String FILE\_NAME = "example.txt";

// Write to a file

public static void writeFile(String content) {

try (BufferedWriter writer = new BufferedWriter(new FileWriter(FILE\_NAME))) {

writer.write(content);

System.out.println("✅ File written successfully.");

} catch (IOException e) {

System.out.println("❌ Error writing file: " + e.getMessage());

}

}

// Read from a file

public static void readFile() {

try (BufferedReader reader = new BufferedReader(new FileReader(FILE\_NAME))) {

String line;

System.out.println("📄 File contents:");

while ((line = reader.readLine()) != null) {

System.out.println(">> " + line);

}

} catch (IOException e) {

System.out.println("❌ Error reading file: " + e.getMessage());

}

}

// Modify a file by replacing a specific word

public static void modifyFile(String oldWord, String newWord) {

try {

// Read original content

StringBuilder contentBuilder = new StringBuilder();

BufferedReader reader = new BufferedReader(new FileReader(FILE\_NAME));

String line;

while ((line = reader.readLine()) != null) {

contentBuilder.append(line.replaceAll(oldWord, newWord)).append("\n");

}

reader.close();

// Write modified content back

BufferedWriter writer = new BufferedWriter(new FileWriter(FILE\_NAME));

writer.write(contentBuilder.toString());

writer.close();

System.out.println("✏️ File modified successfully.");

} catch (IOException e) {

System.out.println("❌ Error modifying file: " + e.getMessage());

}

}

// Main method to demonstrate all operations

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Step 1: Write

System.out.println("Enter content to write into file:");

String content = scanner.nextLine();

writeFile(content);

// Step 2: Read

readFile();

// Step 3: Modify

System.out.println("Enter word to be replaced:");

String oldWord = scanner.nextLine();

System.out.println("Enter new word:");

String newWord = scanner.nextLine();

modifyFile(oldWord, newWord);

// Step 4: Read again

readFile();

scanner.close();

}

}