

Task 1

```
import java.io.*;
import java.util.*;

public class FileOperations {
    //Write to a file

    public static void writeToFile(String filename, String content) {
        try (BufferedWriter writer = new BufferedWriter(new FileWriter (filename)) {
            writer.write(content);

            System.out.println(File written successfully. \n");
        } catch (IOException e) {

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

        }

        // Read from a file

        public static void readFromFile(String filename) {
            System.out. println("Reading file content:")

            try (BufferedReader reader = new BufferedReader(new FileReader(filename)
                String line;

                while (line = reader.readLine)) != nul) {
                    System.out.println(line);

                    System.out.println():
                } catch (IOException e) {

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

                }

            // Modify content in a file (replace a word)

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

                    File file = new File(filename);
                    Scanner scanner = new Scanner(file);
                    StringBuilder content = new StringBuilderO:
```

```
while (scanner. hasNextLine())
```

```
String line = scanner.nextLine());
```

```
content.append(line.replaceAll(oldWord, newWord). append(System. lineSeparator);
```

```
}
```

```
Scanner.close);
```

II Write modified content back

```
BufferedWriter writer = new BufferedWriter(new FileWriter(file):
```

```
writer.write(content.toString):
```

```
writer.close):
```

```
System.out.println(File modified successfully. \n");
```

```
} catch (IOException e) {
```

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

```
public static void main(String[] args) {
```

```
String filename = "example.txt";
```

```
String content = "This is a sample text file.\nIt contains sample data for testing.";
```

Write to file

```
writeToFile(filename, content);
```

I/ Read file

```
readFromFile(filename);
```

II Modify file

```
modifyFile(filename, 'sample', 'demo');
```

I/ Read modified file

```
readFromFile(filename);
```