## **Java File Operations - Code Explanation**

## Introduction

This Java code demonstrates basic file operations like reading, writing, and modifying files.

```
The operations include:

1. Writing content to a file.

2. Reading content from a file.

3. Modifying specific content in a file.
```

The code utilizes BufferedReader for reading and BufferedWriter for writing text to the file.

## **Java Code**

```
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
public class FileOperations {
    // Method to write text 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("Content written to file: " + fileName);
        } catch (IOException e) {
            System.err.println("Error writing to file: " + e.getMessage());
        }
    }
    // Method to read text from a file
    public static String readFromFile(String fileName) {
        StringBuilder content = new StringBuilder();
        try (BufferedReader reader = new BufferedReader(new FileReader(fileName))) {
            String line;
            while ((line = reader.readLine()) != null) {
                content.append(line).append("\n");
            System.out.println("Content read from file: " + fileName);
        } catch (IOException e) {
            System.err.println("Error reading from file: " + e.getMessage());
        return content.toString();
    }
```

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{

}

```
// Method to modify text in a file
public static void modifyFile(String fileName, String oldContent, String newContent)
    String fileContent = readFromFile(fileName);
    if (fileContent.contains(oldContent)) {
        fileContent = fileContent.replace(oldContent, newContent);
        writeToFile(fileName, fileContent);
        System.out.println("File modified: " + fileName);
    } else {
        System.out.println("Old content not found in the file.");
}
public static void main(String[] args) {
    String fileName = "example.txt";
    // Writing to the file
    writeToFile(fileName, "Hello, World!\nThis is a sample text file.");
    // Reading from the file
    String content = readFromFile(fileName);
    System.out.println("File Content:\n" + content);
    // Modifying the file
    modifyFile(fileName, "sample", "modified");
    // Reading the modified file
    String modifiedContent = readFromFile(fileName);
    System.out.println("Modified File Content:\n" + modifiedContent);
}
```