PRACTICAL 15:

AIM: Write a program in Java to perform create, write, modify, and read operations on a text file.

CODE:

import java.io.File;

import java.io.FileWriter;

import java.io.FileReader;

import java.io.BufferedReader;

import java.io.IOException;

public class FileOperations {

public static void main(String[] args) {

String filePath = "example.txt";

// 1. Create the file

createFile(filePath);

// 2. Write content to the file

writeToFile(filePath, "This is the first line of the file.\n");

// 3. Append more content to the file

appendToFile(filePath, "This is an appended line.\n");

// 4. Read and display the content of the file

readFile(filePath);

}

// Create a file if it doesn't already exist

public static void createFile(String filePath) {

try {

File file = new File(filePath);

if (file.createNewFile()) {

System.out.println("File created: " + file.getName());

} else {

System.out.println("File already exists.");

}

} catch (IOException e) {

System.out.println("An error occurred while creating the file.");

e.printStackTrace();

}

}

// Write content to the file (overwrite mode)

public static void writeToFile(String filePath, String content) {

try (FileWriter writer = new FileWriter(filePath)) {

writer.write(content);

System.out.println("Content written to the file.");

} catch (IOException e) {

System.out.println("An error occurred while writing to the file.");

e.printStackTrace();

}

}

// Append content to the file

public static void appendToFile(String filePath, String content) {

try (FileWriter writer = new FileWriter(filePath, true)) {

writer.write(content);

System.out.println("Content appended to the file.");

} catch (IOException e) {

System.out.println("An error occurred while appending to the file.");

e.printStackTrace();

}

}

// Read content from the file and print it

public static void readFile(String filePath) {

try (BufferedReader reader = new BufferedReader(new FileReader(filePath))) {

String line;

System.out.println("\n--- File Content ---");

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

System.out.println(line);

}

System.out.println("--- End of File ---");

} catch (IOException e) {

System.out.println("An error occurred while reading the file.");

e.printStackTrace();

}

}

}

OUTPUT:

