

CodTech Internship - Task 1: File Handling Utility

This report presents a Java program that demonstrates basic file handling operations as part of the CodTech Internship Task 1. The operations include writing to a file, reading from a file, and modifying (overwriting) file contents.

Java Program: FileHandlingUtility.java

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

public class FileHandlingUtility {

    static final String FILE_NAME = "sample.txt";
    static Scanner scanner = new Scanner(System.in);

    public static void main(String[] args) {
        int choice;
        do {
            System.out.println("\n--- File Handling Utility ---");
            System.out.println("1. Write to File");
            System.out.println("2. Read from File");
            System.out.println("3. Modify File");
            System.out.println("4. Exit");
            System.out.print("Enter your choice: ");

            choice = scanner.nextInt();
            scanner.nextLine();

            switch (choice) {
                case 1: writeToFile(); break;
                case 2: readFromFile(); break;
                case 3: modifyFile(); break;
                case 4: System.out.println("Exiting program. Goodbye!"); break;
                default: System.out.println("Invalid choice. Please select again.");
            }
        } while (choice != 4);
    }

    public static void writeToFile() {
        try (FileWriter fw = new FileWriter(FILE_NAME, true);
             BufferedWriter bw = new BufferedWriter(fw)) {
            System.out.print("Enter text to write: ");
            String text = scanner.nextLine();
            bw.write(text);
            bw.newLine();
            System.out.println("Text written successfully!");
        } catch (IOException e) {
            System.out.println("Error writing to file: " + e.getMessage());
        }
    }

    public static void readFromFile() {
        try (FileReader fr = new FileReader(FILE_NAME);
             BufferedReader br = new BufferedReader(fr)) {
            String line;
            System.out.println("\n--- File Content ---");
            while ((line = br.readLine()) != null) {

```

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```
        System.out.println(line);
    }
} catch (FileNotFoundException e) {
    System.out.println("File not found. Please write to the file first.");
} catch (IOException e) {
    System.out.println("Error reading file: " + e.getMessage());
}
}

public static void modifyFile() {
    try (FileWriter fw = new FileWriter(FILE_NAME, false);
        BufferedWriter bw = new BufferedWriter(fw)) {
        System.out.print("Enter new content to overwrite the file: ");
        String newText = scanner.nextLine();
        bw.write(newText);
        bw.newLine();
        System.out.println("File modified successfully!");
    } catch (IOException e) {
        System.out.println("Error modifying file: " + e.getMessage());
    }
}
}
```

Sample Console Output

--- File Handling Utility ---

1. Write to File
2. Read from File
3. Modify File
4. Exit

Enter your choice: 1

Enter text to write: Hii Welcome to all

Text written successfully!

--- File Handling Utility ---

1. Write to File
2. Read from File
3. Modify File
4. Exit

Enter your choice: 2

--- File Content ---

Welcome to my world

Hii Welcome to all

--- File Handling Utility ---

1. Write to File
2. Read from File
3. Modify File
4. Exit

Enter your choice: 3

Enter new content to overwrite the file: I Hope all are good .My Self Narayanarao

File modified successfully!

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--- File Handling Utility ---

1. Write to File
2. Read from File
3. Modify File
4. Exit

Enter your choice: 2

--- File Content ---

I Hope all are good .My Self Narayanarao

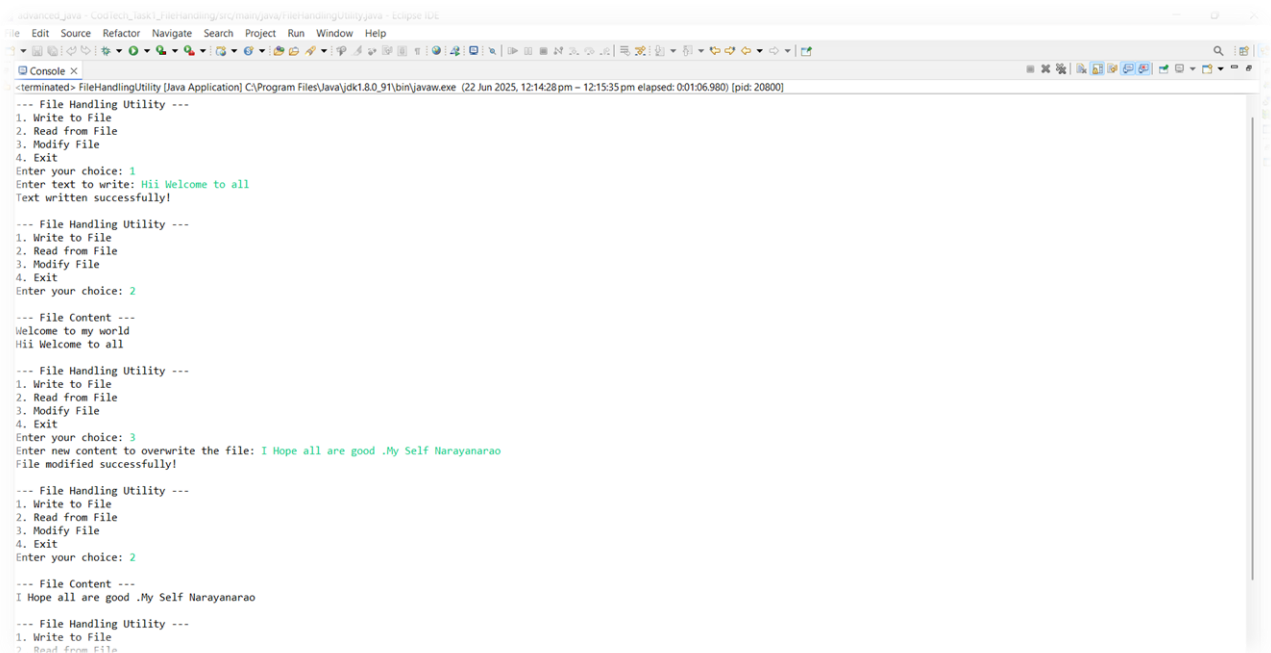
--- File Handling Utility ---

1. Write to File
2. Read from File
3. Modify File
4. Exit

Enter your choice: 4

Exiting program.

This is my output.



```
<terminated> FileHandlingUtility [Java Application] C:\Program Files\Java\jdk1.8.0_91\bin\javaw.exe (22 Jun 2025, 12:14:28 pm - 12:15:35 pm elapsed: 0:01:06.980) [pid: 20800]
--- File Handling Utility ---
1. Write to File
2. Read from File
3. Modify File
4. Exit
Enter your choice: 1
Enter text to write: Hii Welcome to all
Text written successfully!

--- File Handling Utility ---
1. Write to File
2. Read from File
3. Modify File
4. Exit
Enter your choice: 2

--- File Content ---
Welcome to my world
Hii Welcome to all

--- File Handling Utility ---
1. Write to File
2. Read from File
3. Modify File
4. Exit
Enter your choice: 3
Enter new content to overwrite the file: I Hope all are good .My Self Narayanarao
File modified successfully!

--- File Handling Utility ---
1. Write to File
2. Read from File
3. Modify File
4. Exit
Enter your choice: 2

--- File Content ---
I Hope all are good .My Self Narayanarao

--- File Handling Utility ---
1. Write to File
2. Read from File
3. Modify File
4. Exit
Enter your choice: 4
Exiting program.
```

Conclusion :

This utility helps demonstrate how Java can interact with text files effectively. It's useful in many real-world applications like log handling, user inputs, and more.