

# **TASK 11**

## **1. Source code**

### **UserDataApp.java**

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

/*
 * Task 11: File Handling – User Data Storage System
 */

public class UserDataApp {

    private static final String FILE_NAME = "user_data.txt";

    // Method to write user data to file (append mode)
    static void writeUserData(String name, String email, String phone) {

        File file = new File(FILE_NAME);

        try {
            // Create file if it does not exist
            if (!file.exists()) {
                file.createNewFile();
            }

            // FileWriter with append = true
        }
    }
}
```

```
FileWriter fw = new FileWriter(file, true);
BufferedWriter bw = new BufferedWriter(fw);

bw.write("Name: " + name);
bw.newLine();
bw.write("Email: " + email);
bw.newLine();
bw.write("Phone: " + phone);
bw.newLine();
bw.write("-----");
bw.newLine();

bw.close(); // close BufferedWriter (also closes FileWriter)

System.out.println("User data saved successfully.");

} catch (IOException e) {
    System.out.println("Error while writing data: " + e.getMessage());
}

// Method to read user data from file
static void readUserData() {

    File file = new File(FILE_NAME);
```

```
if (!file.exists()) {  
    System.out.println("No user data found.");  
    return;  
}  
  
try {  
    FileReader fr = new FileReader(file);  
    BufferedReader br = new BufferedReader(fr);  
  
    String line;  
    System.out.println("\n--- Stored User Records ---");  
    while ((line = br.readLine()) != null) {  
        System.out.println(line);  
    }  
  
    br.close(); // close BufferedReader  
  
} catch (IOException e) {  
    System.out.println("Error while reading data: " + e.getMessage());  
}  
}  
  
public static void main(String[] args) {
```

```
Scanner sc = new Scanner(System.in);

System.out.print("Enter Name: ");
String name = sc.nextLine();

System.out.print("Enter Email: ");
String email = sc.nextLine();

System.out.print("Enter Phone Number: ");
String phone = sc.nextLine();

// Write data to file
writeUserData(name, email, phone);

// Read data from file
readUserData();

sc.close();
}
```

## 2.Output

```
Enter Name: Akshata
Enter Email: akshatatrathod@gmail.com
Enter Phone Number: 9483891930
User data saved successfully.
```

```
--- Stored User Records ---
Name: Akshata
Email: akshatatrathod@gmail.com
Phone: 9483891930
-----
```