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Batch: [B-2]

Assignment Number :08

```
import java.io.*;

class RecordManager {
    static BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

    public void addStudentRecords() throws IOException {
        // Create or modify a file for Database
        PrintWriter pw = new PrintWriter(new BufferedWriter(new
FileWriter("studentRecords.txt", true)));
        String studentClass, studentName, studentAddress, studentDOB;
        int studentAge;
        long studentTelephone;
        String choice;
        boolean addMore = false;

        // Read Data
        do {
            System.out.print("\nEnter name: ");
            studentName = br.readLine();
            System.out.print("Address: ");
            studentAddress = br.readLine();
            System.out.print("Class: ");
            studentClass = br.readLine();
            System.out.print("Date of Birth (dd/mm/yy): ");
            studentDOB = br.readLine();
            System.out.print("Age: ");
            studentAge = Integer.parseInt(br.readLine());
            System.out.print("Telephone No.: ");
            studentTelephone = Long.parseLong(br.readLine());

            // Print to File
            pw.println(studentName);
            pw.println(studentAddress);
            pw.println(studentClass);
```

```
pw.println(studentDOB);
pw.println(studentAge);
pw.println(studentTelephone);
```

```
System.out.print("\nRecords added successfully!\n\nDo you want to add more
records? (y/n): ");
choice = br.readLine();
addMore = choice.equalsIgnoreCase("y");
} while (addMore);

pw.close();
displayMenu();
}
```

```
public void readStudentRecords() throws IOException {
    try {
        // Open the file
        BufferedReader file = new BufferedReader(new FileReader("studentRecords.txt"));
        String studentName;
        int index = 1;

        // Read records from the file
        while ((studentName = file.readLine()) != null) {
            System.out.println("S.No.: " + (index++));
            System.out.println(" ----- ");
            System.out.println("\nName: " + studentName);
            System.out.println("Address: " + file.readLine());
            System.out.println("Class: " + file.readLine());
            System.out.println("Date of Birth: " + file.readLine());
            System.out.println("Age: " + Integer.parseInt(file.readLine()));
            System.out.println("Tel. No.: " + Long.parseLong(file.readLine()));
            System.out.println();
        }
        file.close();
        displayMenu();
    } catch (FileNotFoundException e) {
        System.out.println("\nERROR: File not found!");
    }
}
```

```
public void clearRecords() throws IOException {
    // Create a blank file
    PrintWriter pw = new PrintWriter(new BufferedWriter(new
    FileWriter("studentRecords.txt")));
```

```

        pw.close();
        System.out.println("\nAll records cleared successfully!");
        // Wait for some time
        displayMenu();
    }

    public void displayMenu() throws IOException {
        System.out.print("1: Add Records\n2: Display Records\n3: Clear All Records\n4:
Exit\n\nYour Choice: ");
        int choice = Integer.parseInt(br.readLine());
        switch (choice) {
            case 1:
                addStudentRecords();
                break;
            case 2:
                readStudentRecords();
                break;
            case 3:
                clearRecords();
                break;
            case 4:
                System.exit(1);
                break;
            default:
                System.out.println("\nInvalid choice!");
                break;
        }
    }

    public static void main(String[] args) throws IOException {
        RecordManager manager = new RecordManager();
        manager.displayMenu();
    }
}

```

Output:

```

1: Add Records
2: Display Records
3: Clear All Records
4: Exit

```

Your Choice: 1

Enter name: Yash

Address: New York

Class: SE

Date of Birth (dd/mm/yy): 07/06/2004

Age: 19

Telephone No.: 123

Records added successfully!

Do you want to add more records? (y/n): n

1: Add Records

2: Display Records

3: Clear All Records

4: Exit

Your Choice: 2

S.No.: 1

Name: Yash

Address: New York

Class: SE

Date of Birth: 07/06/2004

Age: 19

Tel. No.: 123

1: Add Records

2: Display Records

3: Clear All Records

4: Exit

Your Choice: 3

All records cleared successfully!

1: Add Records

2: Display Records

3: Clear All Records

4: Exit

Your Choice: 4