

```
package Practiseproject;
```

```
import java.io.BufferedReader;
```

```
import java.io.BufferedWriter;
```

```
import java.io.File;
```

```
import java.io.FileReader;
```

```
import java.io.FileWriter;
```

```
import java.io.IOException;
```

```
import java.util.Scanner;
```

```
import java.util.StringTokenizer;
```

```
public class FileHandling {
```

```
    public static void main(String[] args) {
```

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

```
        String choice, cont = "s";
```

```
        while( cont.equalsIgnoreCase("s") ) {
```

```
            System.out.println("\t *****Employee Information System*****\n\n");
```

```
            System.out.println("1) Add New Employee Record ");
```

```
            System.out.println("2) View All Employee Record ");
```

```
            System.out.println("3) Delete Employee Record ");
```

```
            System.out.println("4) Search Record ");
```

```
            System.out.println("5) Update Record ");
```

```
            System.out.println("6) Exit  ");
```

```
System.out.print("\n\n");
```

```
while(true) {
```

```
System.out.println("Enter your choice: ");
```

```
choice = sc.nextLine();
```

```
if( choice.equals("1") ) {
```

```
try {
```

```
AddRecord();
```

```
} catch (IOException e) {
```

```
e.printStackTrace();
```

```
}
```

```
} else if( choice.equals("2") ) {
```

```
try {
```

```
ViewAllRecord();
```

```
} catch (IOException e) {
```

```
e.printStackTrace();
```

```
}
```

```
} else if( choice.equals("3") ) {
```

```
try {
```

```
DeleteRecordById();
```

```
} catch (IOException e) {
```

```
e.printStackTrace();
```

```
}
```

```

        } else if( choice.equals("4") ) {

            try {

                SearchRecordbyID();

            } catch (IOException e) {

                e.printStackTrace();

            }

            } else if( choice.equals("5") ) {

                try {

                    updateRecordbyID();

                } catch (IOException e) { e.printStackTrace();

                }

            }

            else if (choice.equals("6")) {

                break;

            }

        }

        System.out.println("Do you want to continue? Yes/No");

        cont = sc.nextLine();

        if(cont.equals("No") ) {

            break;

        }

    }

}

public static void AddRecord() throws IOException {

```

```

BufferedWriter bw = new BufferedWriter( new
FileWriter("records.txt",true) );

Scanner sc = new Scanner(System.in);

String ID, name, age, adr;

System.out.print("Enter Employee ID: ");

ID = sc.nextLine();

System.out.print("Enter Employee Name: ");

name = sc.nextLine();

System.out.print("Enter Employee Age: ");

age = sc.nextLine();

System.out.print("Enter Employee Address: ");

adr = sc.nextLine();


bw.write(ID+","+name+","+age+","+adr);

bw.flush();

bw.newLine();

bw.close();

}

public static void ViewAllRecord() throws IOException {

    BufferedReader br = new BufferedReader(new FileReader("records.txt") );


    String record;


    System.out.println("----- ");

    System.out.println("| ID Name AgeAddress |");

    System.out.println("----- ");

```

```

while( ( record = br.readLine() ) != null ) {

    StringTokenizer st = new StringTokenizer(record,"");

    System.out.println("|    "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+"
st.nextToken()+" |");

}

System.out.println("| |");

System.out.println("----- ");

br.close();

}

public static void DeleteRecordByID() throws IOException {

    Scanner scInput = new Scanner(System.in);

    String ID, record;

    File tempDB = new File("records_temp.txt");

    File db = new File("records.txt");

    BufferedReader br = new BufferedReader( new FileReader( db ) );

    BufferedWriter bw = new BufferedWriter( new FileWriter( tempDB )

);

```

```
System.out.println("\t Delete Employee Record\n");
```

```
System.out.println("Enter the Employee ID: ");
```

```
ID = scInput.nextLine();
```

```
while( ( record = br.readLine() ) != null ) {
```

```
    if( record.contains(ID) )
```

```
        continue;
```

```
    bw.write(record);
```

```
    bw.flush();
```

```
    bw.newLine();
```

```
}
```

```
br.close();
```

```
bw.close();
```

```
db.delete();
```

```
tempDB.renameTo(db);
```

```
}
```

```
public static void SearchRecordbyID() throws IOException {
```

```
    String ID,record;
```

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

```
BufferedReader br = new BufferedReader( new  
FileReader("records.txt") );
```

```
System.out.println("\t Search Employee Record\n");
```

```
System.out.println("Enter the Employee ID: ");
```

```
ID = scInput.nextLine();
```

```
System.out.println("-----");
```

```
System.out.println("| ID Name Age Address |");
```

```
System.out.println("-----");
```

```
while( ( record = br.readLine() ) != null ) {
```

```
StringTokenizer st = new StringTokenizer(record, ",");
```

```
if( record.contains(ID) ) {
```

```
System.out.println(" | "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+"  
"+st.nextToken()+" |");
```

```
}
```

```
}
```

```
System.out.println("|-----|");
```

```
System.out.println(" ----- ");
```

```
br.close();
```

```
}
```

```
public static void updateRecordbyID() throws IOException {
```

```
String newName, newAge, newAddr, record, ID,record2;
```

```
File db = new File("records.txt");
```

```
File tempDB = new File("records_temp.txt");
```

```
BufferedReader br = new BufferedReader( new FileReader(db) );
```

```
BufferedWriter bw = new BufferedWriter( new FileWriter(tempDB) );
```

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

```
System.out.println("\t\t Update Employee Record\n\n");
```

```
/**/
```

```
System.out.println("Enter the Employee ID: ");
```

```
ID = scInput.nextLine();
```

```
System.out.println("-----");
```

```
System.out.println("| ID Name Age Address |");
```

```
System.out.println("-----");
```



```

while( ( record = br.readLine() ) != null ) {

    StringTokenizer st = new
StringTokenizer(record, ",");

    if( record.contains(ID) ) {

        System.out.println(" | "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+"
st.nextToken()+" |");

    }

}

System.out.println(" |-----|");
System.out.println("-----");

br.close();

/**/

System.out.println("Enter the new Name: ");
newName = scInput.nextLine();

System.out.println("Enter the new Age: ");
newAge = scInput.nextLine();

System.out.println("Enter the new Address: ");
newAddr = scInput.nextLine();

BufferedReader br2 = new BufferedReader( new FileReader(db) );

while( ( record2 = br2.readLine() ) != null ) {

    if(record2.contains(ID)) {

```

```

        bw.write(ID+","+newName+","+newAge+","+newAddr);

    } else {

        bw.write(record2);

    }

    bw.flush();

    bw.newLine();

}

bw.close();

br2.close();

db.delete();

boolean success = tempDB.renameTo(db);

System.out.println(success);

}

}

```

output:

*****Employee Information System*****

- 1) Add New Employee Record
- 2) View All Employee Record

3) Delete Employee Record

4) Search Record

5) Update Record

6) Exit

Enter your choice:

1

Enter Employee ID: 5

Enter Employee Name: Khan

Enter Employee Age: 23

Enter Employee Address: hno 83

Do you want to continue? Yes/No

n

Enter your choice:

2

| ID Name AgeAddress |

| 5 Khan 23 hno 83 |

| |

Do you want to continue? Yes/No