

```

1 package com;
2 import java.io.BufferedReader;
3 import java.io.BufferedWriter;
4 import java.io.File;
5 import java.io.FileReader;
6 import java.io.FileWriter;
7 import java.io.IOException;
8 import java.util.Scanner;
9 import java.util.StringTokenizer;
10
11 public class FileHandling_Project {
12     public static void main(String[] args) {
13
14         Scanner strInput = new Scanner(System.in);
15
16         String choice, cont = "y";
17         while( cont.equalsIgnoreCase("y") ) {
18
19             System.out.println("\t\t Employee Information System\n\n");
20             System.out.println("1 ==> Add New Employee Record ");
21             System.out.println("2 ==> View All Employee Record ");
22             System.out.println("3 ==> Delete Employee Record ");
23             System.out.println("4 ==> Search Specific Record ");
24             System.out.println("5 ==> Update Specific Record ");
25             System.out.print("\n\n");
26             System.out.println("Enter your choice: ");
27             choice = strInput.nextLine();
28             if( choice.equals("1") ) {
29                 try {
30                     AddRecord();
31                 } catch (IOException e) {
32                     e.printStackTrace();
33                 }
34             } else if( choice.equals("2") ) {
35
36                 try {

```

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37
38 ViewAllRecord();
39
40 } catch (IOException e) {
41 e.printStackTrace();
42 }
43     } else if( choice.equals("3") ) {
44         try {
45
46 DeleteRecordByID();
47
48 } catch (IOException e) {
49 e.printStackTrace();
50 }
51     } else if( choice.equals("4") ) {
52
53         try {
54
55 SearchRecordbyID();
56 } catch (IOException e) {
57 e.printStackTrace();
58 }
59     } else if( choice.equals("5") ) {
60         try {
61 updateRecordbyID();
62 } catch (IOException e) {
63 e.printStackTrace();
64 }
65     }
66     System.out.println("Do you want to continue? Y/N");
67     cont = strInput.nextLine();
68 }
69
70 public static void AddRecord() throws IOException {
71     BufferedWriter bw = new BufferedWriter( new FileWriter("records.txt",true) );
72     Scanner strInput = new Scanner(System.in);

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73 String ID, name, age, addr;
74 System.out.print("Enter the Employee ID: ");
75 ID = strInput.nextLine();
76 System.out.print("Enter the Employee Name: ");
77 name = strInput.nextLine();
78 System.out.print("Enter the Employee Age: ");
79 age = strInput.nextLine();
80 System.out.print("Enter the Employee Address: ");
81 addr = strInput.nextLine();
82 bw.write(ID+","+name+","+age+","+addr);
83 bw.flush();
84 bw.newLine();
85 bw.close();
86 }
87 public static void ViewAllRecord() throws IOException {
88     BufferedReader br = new BufferedReader( new FileReader("records.txt") );
89     String record;
90     System.out.println(" ----- ");
91
92     System.out.println("|    ID        Name                Age        Address                |");
93
94     System.out.println(" ----- ");
95     while( ( record = br.readLine() ) != null ) {
96         StringTokenizer st = new StringTokenizer(record, ",");
97         System.out.println("|    "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+"
98         |");
99         System.out.println(" ----- ");
100
101         br.close();
102     }
103
104 public static void DeleteRecordByID() throws IOException {
105     Scanner strInput = new Scanner(System.in);
106
107
108

```

```

109 String ID, record;
110 File tempDB = new File("records_temp.txt");
111
112 File db = new File("records.txt");
113 BufferedReader br = new BufferedReader( new FileReader( db ) );
114
115 BufferedWriter bw = new BufferedWriter( new FileWriter( tempDB ) );
116
117 System.out.println("\t\t Delete Employee Record\n");
118
119 System.out.println("Enter the Employee ID: ");
120
121 ID = strInput.nextLine();
122 while( ( record = br.readLine() ) != null ) {
123
124     if( record.contains(ID) )
125
126         continue;
127     bw.write(record);
128
129     bw.flush();
130
131     bw.newLine();
132 }
133 br.close();
134 bw.close();
135 db.delete();
136 tempDB.renameTo(db);
137 }
138 public static void SearchRecordbyID() throws IOException {
139
140     String ID, record;
141
142     Scanner strInput = new Scanner(System.in);
143
144

```

```

145
146     BufferedReader br = new BufferedReader( new FileReader("records.txt") );
147
148
149
150     System.out.println("\t\t Search Employee Record\n");
151
152
153
154
155
156     System.out.println("Enter the Employee ID: ");
157
158     ID = strInput.nextLine();
159
160
161
162     System.out.println(" ----- ");
163
164     System.out.println("|   ID           Name           Age           Address           |");
165
166     System.out.println(" ----- ");
167
168
169
170     while( ( record = br.readLine() ) != null ) {
171
172
173
174         StringTokenizer st = new StringTokenizer(record, ",");
175
176         if( record.contains(ID) ) {
177
178             System.out.println("|   "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+" |")
179
180         }

```



```
181     }
182
183     System.out.println(" |");
184
185     System.out.println(" ----- ");
186
187     br.close();
188
189
190 }
```

```
191
192 public static void updateRecordbyID() throws IOException {
193
194     String newName, newAge, newAddr, record, ID, record2;
195
196
197
198     File db = new File("records.txt");
199
200     File tempDB = new File("records_temp.txt");
201
202
203
204     BufferedReader br = new BufferedReader( new FileReader(db) );
205
206     BufferedWriter bw = new BufferedWriter( new FileWriter(tempDB) );
207
208
209
210     Scanner strInput = new Scanner(System.in);
211
212
213
214     System.out.println("\t\t Update Employee Record\n\n");
215
216
217
```

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/**/
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```

217 System.out.println("Enter the Employee ID: ");
218
219     ID = strInput.nextLine();
220
221     System.out.println(" ----- ");
222
223     System.out.println("|   ID           Name           Age           Address           |");
224
225     System.out.println(" ----- ");
226
227
228
229
230     while( ( record = br.readLine() ) != null ) {
231
232
233         StringTokenizer st = new StringTokenizer(record, ",");
234
235         if( record.contains(ID) ) {
236
237             System.out.println("|   "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+" "+st.nextToken()+" |");
238
239         }
240
241
242
243
244     }
245
246     System.out.println("|                                           |");
247
248     System.out.println(" ----- ");
249
250
251
252     br.close();

```

```
256 System.out.println("Enter the new Name: ");
257
258 newName = strInput.nextLine();
259
260 System.out.println("Enter the new Age: ");
261
262 newAge = strInput.nextLine();
263
264 System.out.println("Enter the new Address: ");
265
266 newAddr = strInput.nextLine();
267
268
269
270 BufferedReader br2 = new BufferedReader( new FileReader(db) );
271
272
273
274 while( (record2 = br2.readLine() ) != null ) {
275
276     if(record2.contains(ID)) {
277
278         bw.write(ID+","+newName+","+newAge+","+newAddr);
279
280     } else {
281
282
283
284         bw.write(record2);
285
286     }
287
288     bw.flush();
289
290     bw.newLine();
291
```



```
292     }
293
294
295
296     bw.close();
297
298     br2.close();
299
300     db.delete();
301
302     boolean success = tempDB.renameTo(db);
303
304     System.out.println(success);
305
306
307
308
309
310 }
311
312 }
313
```