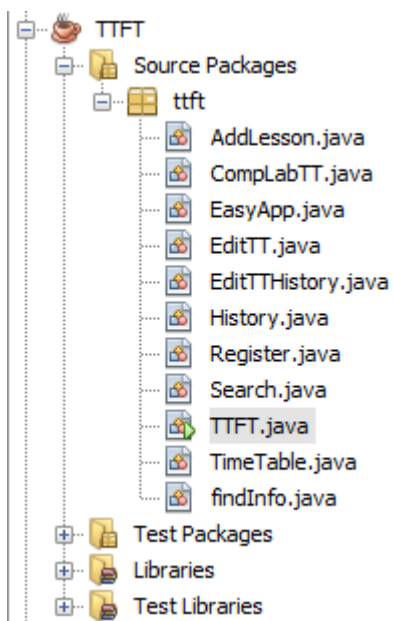


Appendix



Easyapp.java that was used in my program was created by the IB, the class itself was taken from the site <http://ibcomp.fis.edu/Java/EasyApp.html>.

Mulkey, D. (2006). EasyApp - Simplified AWT Controls. Germany.

My program code:

```

1 package ttft;
2
3 /**
4  * Time-Table for Teacher (TTFT)
5  * IDE - NetBeans 7.3.1
6  * @author
7  * date December 2013
8  */
9 import java.awt.*;
10 import java.io.RandomAccessFile;
11 import java.io.IOException;
12
13 public class TTFT extends EasyApp {
14
15     public static void main(String[] args) {
16         new TTFT();
17     }
18     Label Title = addLabel("Login Section", 50, 50, 400, 50, this);
19     Label Login_ = addLabel("Login", 50, 110, 60, 50, this);

```

```

20  TextField T1 = addTextField("", 170, 120, 150, 30, this);
21  Label Password_ = addLabel("Password", 50, 160, 60, 50, this);
22  TextField T2 = addTextField("", 170, 170, 150, 30, this);
23  Button Register = addButton("Register", 50, 225, 130, 40, this);
24  Button Login = addButton("Login", 200, 225, 130, 40, this);
25  Button Exit = addButton("Exit", 230, 280, 100, 40, this);
26  Label CopyRight = addLabel("Europeanschool 2013 ©", 50, 280, 200, 50, this);
27
28  public TTFT() {
29      setTitle("Time-Table for Teachers");
30      setBounds(50, 50, 370, 350);
31      Title.setFont(new Font("Arial", 0, 20));
32      Title.setForeground(Color.blue);
33  }
34
35  public void actions(Object source, String command) {
36      if (source == Register) {
37          RegisterCheck();
38      }
39      if (source == Login) {
40          Login();
41      }
42      if (source == Exit) {
43          System.exit(0);
44      }
45  }
46  static String name;
47  void Login() {
48      try {
49          RandomAccessFile main = new RandomAccessFile("main.txt", "r"); //user name and
                                                                    password will be saved
50          if (main.length() != 0) {
51              String line = main.readLine();
52              name = line.substring(0, line.indexOf("|"));
53              String pass = line.substring(line.indexOf("|") + 1);
54
55              String pass1 = "";
56              for (int i = 0; i < pass.length(); i++) {
57                  int k = (int) pass.charAt(i) - 1;
58                  pass1 = pass1 + (char) k;
59              }
60
61              if (name.equals(T1.getText()) && pass1.equals(T2.getText())) {
62                  new CompLabTT();
63                  dispose();
64              } else {
65                  outputString("Error!\n" + "Login or password is incorrect!");
66              }
67          } else {
68              outputString("Please, register at first!");
69          }
70      } catch (IOException e) {
71          e.getMessage();
72      }
73  }

```

```
74
75 void RegisterCheck() {
76     try {
77         RandomAccessFile main = new RandomAccessFile("main.txt", "rw");
78         if (main.length() == 0) {
79             new Register();
80         } else {
81             outputString("You are already registered!\n" + "Please, try to Login!");
82         }
83     } catch (IOException e) {
84         e.getMessage();
85     }
86 }
87 }
```

```

1 package ttft;
2 import java.awt.*;
3 import java.io.RandomAccessFile;
4 import java.io.IOException;
5
6 public class AddLesson extends EasyApp {
7
8     Label Title = addLabel("Add a Lesson Section", 40, 40, 400, 50, this);
9     Label TeacherL = addLabel("Teacher", 50, 100, 80, 30, this);
10    Label SubjectL = addLabel("Subject", 50, 140, 80, 30, this);
11    Label DayL = addLabel("Day", 50, 180, 80, 30, this);
12    Label PeriodL = addLabel("Period", 50, 220, 80, 30, this);
13    Label GradeL = addLabel("Grade", 50, 260, 80, 30, this);
14    TextField Teacher = addTextField("", 170, 100, 150, 30, this);
15    TextField Subject = addTextField("", 170, 140, 150, 30, this);
16    TextField Day = addTextField("", 170, 180, 150, 30, this);
17    TextField Period = addTextField("", 170, 220, 150, 30, this);
18    TextField Grade = addTextField("", 170, 260, 150, 30, this);
19    Button TimeTable = addButton("Time-Table", 40, 310, 100, 50, this);
20    Button Accept = addButton("Accept", 160, 310, 100, 50, this);
21    Button Exit = addButton("Exit", 280, 310, 100, 50, this);
22
23    public AddLesson() {
24        setTitle("CompLab Time-table");
25        setBounds(425, 78, 440, 390);
26        Title.setFont(new Font("Arial", 0, 20));
27        Title.setForeground(Color.blue);
28    }
29
30    public void actions(Object source, String command) {
31        if (source == TimeTable) {
32            new TimeTable();
33        }
34        if (source == Accept) {
35            Accept();
36        }
37        if (source == Exit) {
38            System.exit(0);
39        }
40    }
41    // methods description
42    void Accept() {
43        String teacher = Teacher.getText();
44        String subject = Subject.getText();
45        String day = Day.getText();
46        String period = Period.getText();
47        String grade = Grade.getText();
48        if (teacher.equals("") || subject.equals("") || day.equals("") || period.equals("") ||
49            grade.equals("")) {
50            outputString("Error!\n" + "fill in all fields!");
51        } else {
52            String record = teacher + "/" + subject + "/" + day + "/" + period + "/" + grade;
53            try {

```

```

54     RandomAccessFile timetable = new RandomAccessFile("timetable.txt", "rw"); //file to
                                     save all information as an records
55     int length = (int) timetable.length();
56     if (length == 0) {
57         timetable.writeBytes(TTFT.name + "'s room TimeTable\n");
58         timetable.writeBytes("\n");
59     } else {
60         timetable.seek(length);
61     }
62     System.out.println(record);
63     timetable.writeBytes(record + "\n");
64 } catch (IOException e) {
65     e.getMessage();
66 }
67 //clean all files after accepting all data
68 Teacher.setText("");
69 Subject.setText("");
70 Day.setText("");
71 Period.setText("");
72 Grade.setText("");
73 }
74 }
75 }

```

```

1 package ttft;
2 import java.awt.*;
3 public class CompLabTT extends EasyApp {
4
5     Button TimeTable = addButton("Time-Table", 50, 50, 130, 50, this);
6     Button AddLesson = addButton("Add a Lesson", 200, 50, 130, 50, this);
7     Button Search = addButton("Search", 125, 115, 130, 50, this);
8     Button Exit = addButton("Exit", 240, 190, 100, 50, this);
9
10    public CompLabTT() {
11        setTitle("CompLab Time-table");
12        setBounds(400, 80, 380, 260);
13    }
14
15    public void actions(Object source, String command) {
16        if (source == TimeTable) {
17            new TimeTable();
18        }
19        if (source == AddLesson) {
20            new AddLesson();
21        }
22        if (source == Search) {
23            new Search();
24        }
25        if (source == Exit) {
26            System.exit(0);
27        }
28    }
29 }

```

```

1 package tfft;
2 import java.awt.*;
3 import java.io.RandomAccessFile;
4 import java.io.IOException;
5
6 public class EditTT extends EasyApp {
7
8     Label Title = addLabel("Time-Table Editor", 40, 40, 400, 50, this);
9     Label TeacherL = addLabel("Teacher", 50, 100, 80, 30, this);
10    Label SubjectL = addLabel("Subject", 50, 140, 80, 30, this);
11    Label DayL = addLabel("Day", 50, 180, 80, 30, this);
12    Label PeriodL = addLabel("Period", 50, 220, 80, 30, this);
13    Label GradeL = addLabel("Grade", 50, 260, 80, 30, this);
14    TextField Teacher = addTextField("", 170, 100, 150, 30, this);
15    TextField Subject = addTextField("", 170, 140, 150, 30, this);
16    TextField Day = addTextField("", 170, 180, 150, 30, this);
17    TextField Period = addTextField("", 170, 220, 150, 30, this);
18    TextField Grade = addTextField("", 170, 260, 150, 30, this);
19    Button Accept = addButton("Accept", 85, 310, 100, 50, this);
20    Button Exit = addButton("Exit", 220, 310, 100, 50, this);
21
22    public EditTT() {
23
24        setTitle("Edit Time-Table");
25        setBounds(425, 78, 350, 390);
26        Title.setFont(new Font("Arial", 0, 20));
27        Title.setForeground(Color.blue);
28        buttonInfo();
29    }
30
31    public void actions(Object source, String command) {
32
33        if (source == Accept) {
34            Accept();
35        }
36        if (source == Exit) {
37            System.exit(0);
38        }
39    }
40    String button = TimeTable.check[TimeTable.i][TimeTable.j];
41    int z;
42
43    void buttonInfo() {
44
45        z = 0;
46        String day;
47        if (TimeTable.j == 0) {
48            day = "Monday";
49        } else if (TimeTable.j == 1) {
50            day = "Tuesday";
51        } else if (TimeTable.j == 2) {
52            day = "Wednesday";
53        } else if (TimeTable.j == 3) {
54            day = "Thursday";
55        } else {

```

```

56     day = "Friday";
57 }
58
59 String period = "" + (TimeTable.i + 1);
60 if (button != null) {
61     // button is not empty
62     while (z < TimeTable.count) {
63         if (TimeTable.LessonInfo[z][2].equals(day) && TimeTable.LessonInfo[z][3].equals(period)) {
64             Teacher.setText(TimeTable.LessonInfo[z][0]);
65             Subject.setText(TimeTable.LessonInfo[z][1]);
66             Day.setText(TimeTable.LessonInfo[z][2]);
67             Period.setText(TimeTable.LessonInfo[z][3]);
68             Grade.setText(TimeTable.LessonInfo[z][4]);
69             HistoryOfActions();
70             Edit();
71             break;
72         }
73         z++;
74     }
75 } else {
76     Day.setText(day);
77     Period.setText(period);
78 }
79 }
80
81 void HistoryOfActions() {
82
83     try {
84         RandomAccessFile OldInfo = new RandomAccessFile("History.txt", "rw");
85         OldInfo.seek(OldInfo.length());
86         OldInfo.writeBytes(TimeTable.LessonInfo[z][0] + "/" + TimeTable.LessonInfo[z][1] + "/"
+ TimeTable.LessonInfo[z][2] + "/" + TimeTable.LessonInfo[z][3] + "/"
+ TimeTable.LessonInfo[z][4] + "\n");
87
88     } catch (IOException e) {
89         e.getMessage();
90     }
91 }
92 //if Button is empty - Accept() method works as input new lesson
93 //if Button is already accepted - client should change information and then save
94 // thus, change = delete + accept
95 void Accept () {
96     String teacher = Teacher.getText();
97     String subject = Subject.getText();
98     String day = Day.getText();
99     String period = Period.getText();
100    String grade = Grade.getText();
101    if (teacher.equals("") || subject.equals("") || day.equals("") || period.equals("") ||
        grade.equals("")) {
102        outputString("Error!\n" + "fill in all fields!");
103    }
104    } else {
105        String record = teacher + "/" + subject + "/" + day + "/" + period + "/" + grade;
106        try {

```



```

107     RandomAccessFile timetable = new RandomAccessFile("timetable.txt", "rw"); //file
        to save all information as an records
108     int length = (int) timetable.length();
109     if (length == 0) {
110         timetable.writeBytes(TTFT.name + "'s room TimeTable\n");
111         timetable.writeBytes("\n");
112     } else {
113         timetable.seek(length);
114     }
115     timetable.writeBytes(record + "\n");
116 } catch (IOException e) {
117     e.getMessage();
118 }
119 }
120 //clean all fileds after accepting all data
121 Teacher.setText("");
122 Subject.setText("");
123 Day.setText("");
124 Period.setText("");
125 Grade.setText("");
126 }
127
128 void Edit() {
129     //delete the record and accept changies
130     try {
131         RandomAccessFile newTT = new RandomAccessFile("timetable.txt", "rw"); //delete
        line from file
132         newTT.setLength(0);
133         newTT.writeBytes(TTFT.name + "'s room TimeTable\n");
134         newTT.writeBytes("\n");
135         int i = 0;
136         while (i < TimeTable.count) {
137             if (i != z) {
138                 String record = TimeTable.LessonInfo[i][0] + "/" + TimeTable.LessonInfo[i][1] +
                    "/" + TimeTable.LessonInfo[i][2] + "/" + TimeTable.LessonInfo[i][3] + "/" +
                    TimeTable.LessonInfo[i][4];
139                 newTT.writeBytes(record + "\n");
140             }
141             i++;
142         }
143
144         TimeTable.check[TimeTable.i][TimeTable.j] = null;
145 // error!!!!!! TimeTable.Lessons[TimeTable.i][TimeTable.j] = addButton("", 160 + TimeTable.j
        * 120, 145 + TimeTable.i * 50, 120, 50, this);
146     } catch (IOException e) {
147         e.getMessage();
148     }
149 }
150 }

```

```

1 package ttft;
2 import java.awt.*;
3 import java.io.RandomAccessFile;
4 import java.io.IOException;
5
6 public class EditTTHistory extends EasyApp {
7     Label Title = addLabel("Time-Table Editor", 40, 40, 400, 50, this);
8     Label TeacherL = addLabel("Teacher", 50, 100, 80, 30, this);
9     Label SubjectL = addLabel("Subject", 50, 140, 80, 30, this);
10    Label DayL = addLabel("Day", 50, 180, 80, 30, this);
11    Label PeriodL = addLabel("Period", 50, 220, 80, 30, this);
12    Label GradeL = addLabel("Grade", 50, 260, 80, 30, this);
13    TextField Teacher = addTextField(History.name, 170, 100, 150, 30, this);
14    TextField Subject = addTextField(History.subject, 170, 140, 150, 30, this);
15    TextField Day = addTextField(History.day, 170, 180, 150, 30, this);
16    TextField Period = addTextField(History.lesson, 170, 220, 150, 30, this);
17    TextField Grade = addTextField(History.grade, 170, 260, 150, 30, this);
18    Button Accept = addButton("Accept", 85, 310, 100, 50, this);
19    Button Exit = addButton("Exit", 220, 310, 100, 50, this);
20
21    public EditTTHistory() {
22        setTitle("Edit Time-Table");
23        setBounds(425, 78, 350, 390);
24        Title.setFont(new Font("Arial", 0, 20));
25        Title.setForeground(Color.blue);
26    }
27
28    public void actions(Object source, String command) {
29
30        if (source == Accept) {
31            Accept();
32        }
33        if (source == Exit) {
34            System.exit(0);
35        }
36    }
37
38    void Accept () {
39        String teacher = Teacher.getText();
40        String subject = Subject.getText();
41        String day = Day.getText();
42        String period = Period.getText();
43        String grade = Grade.getText();
44        if (teacher.equals("") || subject.equals("") || day.equals("") || period.equals("") ||
45            grade.equals("")) {
46            outputString("Error!\n" + "fill in all fields!");
47        } else {
48            String record = teacher + "/" + subject + "/" + day + "/" + period + "/" + grade;
49            try {
50                RandomAccessFile timetable = new RandomAccessFile("timetable.txt", "rw"); //file
51                // to save all information as an records
52                int length = (int) timetable.length();
53                if (length == 0) {
54                    timetable.writeBytes(TTFT.name + "s room TimeTable\n");
55                }
56            } catch (IOException e) {
57                e.printStackTrace();
58            }
59        }
60    }
61
62    void Accept() {
63        // ... (rest of the method)
64    }
65
66    void Exit() {
67        // ... (rest of the method)
68    }
69
70    void setTitle(String title) {
71        // ... (rest of the method)
72    }
73
74    void setBounds(int x, int y, int width, int height) {
75        // ... (rest of the method)
76    }
77
78    void outputString(String text) {
79        // ... (rest of the method)
80    }
81
82    void writeBytes(RandomAccessFile file, String text) {
83        // ... (rest of the method)
84    }
85
86    void readBytes(RandomAccessFile file) {
87        // ... (rest of the method)
88    }
89
90    void printRecord(String record) {
91        // ... (rest of the method)
92    }
93
94    void printRecords() {
95        // ... (rest of the method)
96    }
97
98    void printTable() {
99        // ... (rest of the method)
100    }
101
102    void printHeader() {
103        // ... (rest of the method)
104    }
105
106    void printFooter() {
107        // ... (rest of the method)
108    }
109
110    void printMenu() {
111        // ... (rest of the method)
112    }
113
114    void printHelp() {
115        // ... (rest of the method)
116    }
117
118    void printAbout() {
119        // ... (rest of the method)
120    }
121
122    void printVersion() {
123        // ... (rest of the method)
124    }
125
126    void printCopyright() {
127        // ... (rest of the method)
128    }
129
130    void printLicense() {
131        // ... (rest of the method)
132    }
133
134    void printDisclaimer() {
135        // ... (rest of the method)
136    }
137
138    void printPrivacyPolicy() {
139        // ... (rest of the method)
140    }
141
142    void printTermsOfService() {
143        // ... (rest of the method)
144    }
145
146    void printContactInfo() {
147        // ... (rest of the method)
148    }
149
150    void printFeedback() {
151        // ... (rest of the method)
152    }
153
154    void printSupport() {
155        // ... (rest of the method)
156    }
157
158    void printFAQ() {
159        // ... (rest of the method)
160    }
161
162    void printGlossary() {
163        // ... (rest of the method)
164    }
165
166    void printIndex() {
167        // ... (rest of the method)
168    }
169
170    void printTableOfContents() {
171        // ... (rest of the method)
172    }
173
174    void printBibliography() {
175        // ... (rest of the method)
176    }
177
178    void printReferences() {
179        // ... (rest of the method)
180    }
181
182    void printAppendix() {
183        // ... (rest of the method)
184    }
185
186    void printIndex1() {
187        // ... (rest of the method)
188    }
189
190    void printIndex2() {
191        // ... (rest of the method)
192    }
193
194    void printIndex3() {
195        // ... (rest of the method)
196    }
197
198    void printIndex4() {
199        // ... (rest of the method)
200    }
201
202    void printIndex5() {
203        // ... (rest of the method)
204    }
205
206    void printIndex6() {
207        // ... (rest of the method)
208    }
209
210    void printIndex7() {
211        // ... (rest of the method)
212    }
213
214    void printIndex8() {
215        // ... (rest of the method)
216    }
217
218    void printIndex9() {
219        // ... (rest of the method)
220    }
221
222    void printIndex10() {
223        // ... (rest of the method)
224    }
225
226    void printIndex11() {
227        // ... (rest of the method)
228    }
229
230    void printIndex12() {
231        // ... (rest of the method)
232    }
233
234    void printIndex13() {
235        // ... (rest of the method)
236    }
237
238    void printIndex14() {
239        // ... (rest of the method)
240    }
241
242    void printIndex15() {
243        // ... (rest of the method)
244    }
245
246    void printIndex16() {
247        // ... (rest of the method)
248    }
249
250    void printIndex17() {
251        // ... (rest of the method)
252    }
253
254    void printIndex18() {
255        // ... (rest of the method)
256    }
257
258    void printIndex19() {
259        // ... (rest of the method)
260    }
261
262    void printIndex20() {
263        // ... (rest of the method)
264    }
265
266    void printIndex21() {
267        // ... (rest of the method)
268    }
269
270    void printIndex22() {
271        // ... (rest of the method)
272    }
273
274    void printIndex23() {
275        // ... (rest of the method)
276    }
277
278    void printIndex24() {
279        // ... (rest of the method)
280    }
281
282    void printIndex25() {
283        // ... (rest of the method)
284    }
285
286    void printIndex26() {
287        // ... (rest of the method)
288    }
289
290    void printIndex27() {
291        // ... (rest of the method)
292    }
293
294    void printIndex28() {
295        // ... (rest of the method)
296    }
297
298    void printIndex29() {
299        // ... (rest of the method)
300    }
301
302    void printIndex30() {
303        // ... (rest of the method)
304    }
305
306    void printIndex31() {
307        // ... (rest of the method)
308    }
309
310    void printIndex32() {
311        // ... (rest of the method)
312    }
313
314    void printIndex33() {
315        // ... (rest of the method)
316    }
317
318    void printIndex34() {
319        // ... (rest of the method)
320    }
321
322    void printIndex35() {
323        // ... (rest of the method)
324    }
325
326    void printIndex36() {
327        // ... (rest of the method)
328    }
329
330    void printIndex37() {
331        // ... (rest of the method)
332    }
333
334    void printIndex38() {
335        // ... (rest of the method)
336    }
337
338    void printIndex39() {
339        // ... (rest of the method)
340    }
341
342    void printIndex40() {
343        // ... (rest of the method)
344    }
345
346    void printIndex41() {
347        // ... (rest of the method)
348    }
349
350    void printIndex42() {
351        // ... (rest of the method)
352    }
353
354    void printIndex43() {
355        // ... (rest of the method)
356    }
357
358    void printIndex44() {
359        // ... (rest of the method)
360    }
361
362    void printIndex45() {
363        // ... (rest of the method)
364    }
365
366    void printIndex46() {
367        // ... (rest of the method)
368    }
369
370    void printIndex47() {
371        // ... (rest of the method)
372    }
373
374    void printIndex48() {
375        // ... (rest of the method)
376    }
377
378    void printIndex49() {
379        // ... (rest of the method)
380    }
381
382    void printIndex50() {
383        // ... (rest of the method)
384    }
385
386    void printIndex51() {
387        // ... (rest of the method)
388    }
389
390    void printIndex52() {
391        // ... (rest of the method)
392    }
393
394    void printIndex53() {
395        // ... (rest of the method)
396    }
397
398    void printIndex54() {
399        // ... (rest of the method)
400    }
401
402    void printIndex55() {
403        // ... (rest of the method)
404    }
405
406    void printIndex56() {
407        // ... (rest of the method)
408    }
409
410    void printIndex57() {
411        // ... (rest of the method)
412    }
413
414    void printIndex58() {
415        // ... (rest of the method)
416    }
417
418    void printIndex59() {
419        // ... (rest of the method)
420    }
421
422    void printIndex60() {
423        // ... (rest of the method)
424    }
425
426    void printIndex61() {
427        // ... (rest of the method)
428    }
429
430    void printIndex62() {
431        // ... (rest of the method)
432    }
433
434    void printIndex63() {
435        // ... (rest of the method)
436    }
437
438    void printIndex64() {
439        // ... (rest of the method)
440    }
441
442    void printIndex65() {
443        // ... (rest of the method)
444    }
445
446    void printIndex66() {
447        // ... (rest of the method)
448    }
449
450    void printIndex67() {
451        // ... (rest of the method)
452    }
453
454    void printIndex68() {
455        // ... (rest of the method)
456    }
457
458    void printIndex69() {
459        // ... (rest of the method)
460    }
461
462    void printIndex70() {
463        // ... (rest of the method)
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1306    void printIndex281() {
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1310    void printIndex282() {
1311        // ... (rest of the method)
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1314    void printIndex283() {
1315        // ... (rest of the method)
1316    }
1317
1318    void printIndex284() {
```

```
54         timetable.writeBytes("\n");
55     } else {
56         timetable.seek(length);
57     }
58     timetable.writeBytes(record + "\n");
59 } catch (IOException e) {
60     e.getMessage();
61 }
62 }
63 //clean all fields after accepting all data
64 Teacher.setText("");
65 Subject.setText("");
66 Day.setText("");
67 Period.setText("");
68 Grade.setText("");
69 }
70 }
```

```

1 package ttft;
2 import java.awt.*;
3 import java.io.RandomAccessFile;
4 import java.io.IOException;
5
6 public class History extends EasyApp {
7
8     Label Title = addLabel("Changes made in the timetable", 50, 50, 400, 40, this);
9     Button Exit = addButton("Exit", 240, 270, 80, 40, this);
10    Button Edit = addButton("Edit", 100, 270, 110, 40, this);
11    List HistoryA = addList("", 50, 100, 290, 150, this);
12
13    public History() {
14        setTitle("History of Actions");
15        setBounds(400, 80, 390, 330);
16        Title.setFont(new Font("Arial", 0, 15));
17        Title.setForeground(Color.blue);
18        ShowHistory();
19    }
20
21    public void actions(Object source, String command) {
22        if (source == Exit) {
23            System.exit(0);
24        }
25        if (source == Edit) {
26            Edit();
27        }
28    }
29
30    void ShowHistory() {
31        String text; // to read records from History.txt file
32        HistoryA.removeAll();
33        try {
34            RandomAccessFile OldInfo = new RandomAccessFile("History.txt", "rw");
35            while (OldInfo.getFilePointer() != OldInfo.length()) {
36                text = OldInfo.readLine();
37                HistoryA.add(text + "\n");
38            }
39        } catch (IOException e) {
40            e.getMessage();
41        }
42    }
43    static String name;
44    static String subject;
45    static String day;
46    static String lesson;
47    static String grade;
48
49    void Edit() {
50        String text = HistoryA.getSelectedItem();
51        int index1 = text.indexOf("/");
52        int index2 = text.indexOf("/", index1 + 1);
53        int index3 = text.indexOf("/", index2 + 1);
54        int index4 = text.indexOf("/", index3 + 1);
55    }

```

```
56     name = text.substring(0, index1);
57     subject = text.substring(index1 + 1, index2);
58     day = text.substring(index2 + 1, index3);
59     lesson = text.substring(index3 + 1, index4);
60     grade = text.substring(index4 + 1);
61
62     new EditTTHistory();
63 }
64 }
```

```

1 package ttft;
2 import java.awt.*;
3 import java.io.RandomAccessFile;
4 import java.io.IOException;
5
6 public class Register extends EasyApp {
7
8     Label Title = addLabel("Register Section", 50, 50, 400, 50, this);
9     Label Login_ = addLabel("Login", 50, 110, 60, 50, this);
10    TextField T1 = addTextField("", 170, 120, 150, 30, this);
11    Label Password_ = addLabel("Password", 50, 160, 60, 50, this);
12    TextField T2 = addTextField("", 170, 170, 150, 30, this);
13    Button Create = addButton("Create", 50, 225, 130, 40, this);
14    Button Exit = addButton("Exit", 200, 225, 130, 40, this);
15
16    public Register() {
17
18        setTitle("Time-Table for Teachers");
19        setBounds(425, 78, 370, 320);
20        Title.setFont(new Font("Arial", 0, 20));
21        Title.setForeground(Color.blue);
22    }
23
24    public void actions(Object source, String command) {
25        if (source == Create) {
26            Create();
27        }
28        if (source == Exit) {
29            System.exit(0);
30        }
31    }
32
33    void Create() {
34        String login = T1.getText();
35        String password = T2.getText();
36        String passwordNew = "";
37        try {
38            RandomAccessFile main = new RandomAccessFile("main.txt", "rw");
39            for (int i = 0; i < password.length(); i++) {
40                int k = (int) password.charAt(i) + 1;
41                passwordNew = passwordNew + (char) k;
42            }
43            main.writeBytes(login + "|" + passwordNew + "\n");
44
45        } catch (IOException e) {
46            e.getMessage();
47        }
48        dispose();
49    }
50 }

```

```

1 package ttft;
2
3 import java.awt.*;
4
5 public class Search extends EasyApp {
6
7     Button ByDay = addButton("By Day", 150, 110, 90, 40, this);
8     Button ByClass = addButton("By Class", 50, 160, 90, 40, this);
9     Button ByTeacher = addButton("By Teacher", 50, 110, 90, 40, this);
10    Button BySubject = addButton("By Subject", 150, 160, 90, 40, this);
11    Button History = addButton("History of actions", 50, 220, 190, 40, this);
12    Button Exit = addButton("Exit", 280, 220, 70, 40, this);
13    TextField SearchText = addTextField("", 50, 60, 190, 30, this);
14
15    public Search() {
16        setTitle("Search");
17        setBounds(400, 80, 390, 280);
18    }
19    static String text;
20    static int index;
21    public void actions(Object source, String command) {
22
23        text = SearchText.getText();
24
25        if (source == ByDay) {
26            index = 2;
27            new findInfo();
28        }
29        if (source == ByClass) {
30            index = 4;
31            new findInfo();
32        }
33        if (source == ByTeacher) {
34            index = 0;
35            new findInfo();
36        }
37        if (source == BySubject) {
38            index = 1;
39            new findInfo();
40        }
41        if (source == History) {
42            new History();
43        }
44        if (source == Exit) {
45            System.exit(0);
46        }
47    }
48 }

```

```

1 package ttft;
2
3 import java.awt.*;
4 import java.io.RandomAccessFile;
5 import java.io.IOException;
6
7 public class TimeTable extends EasyApp {
8
9     Label Title = addLabel("Computer Lab Time-Table", 40, 40, 400, 50, this);
10    Button Exit = addButton("Exit", 660, 610, 100, 40, this);
11    Label Lesson = addLabel("Lesson | Time", 40, 100, 120, 40, this);
12    Label Lesson1 = addLabel(" 1 | 09:00-09:45", 40, 150, 120, 40, this);
13    Label Lesson2 = addLabel(" 2 | 09:50-10:35", 40, 200, 120, 40, this);
14    Label Lesson3 = addLabel(" 3 | 10:45-11:30", 40, 250, 120, 40, this);
15    Label Lesson4 = addLabel(" 4 | 11:35-12:20", 40, 300, 120, 40, this);
16    Label Lesson5 = addLabel(" 5 | 12:50-13:35", 40, 350, 120, 40, this);
17    Label Lesson6 = addLabel(" 6 | 13:40-14:25", 40, 400, 120, 40, this);
18    Label Lesson7 = addLabel(" 7 | 14:30-15:15", 40, 450, 120, 40, this);
19    Label Lesson8 = addLabel(" 8 | 15:20-16:05", 40, 500, 120, 40, this);
20    Label Lesson9 = addLabel(" 9 | 16:10-16:55", 40, 550, 120, 40, this);
21    Label Monday = addLabel("Monday", 185, 100, 120, 40, this);
22    Label Tuesday = addLabel("Tuesday", 305, 100, 110, 40, this);
23    Label Wednesday = addLabel("Wednesday", 420, 100, 120, 40, this);
24    Label Thursday = addLabel("Thursday", 545, 100, 120, 40, this);
25    Label Friday = addLabel("Friday", 665, 100, 120, 40, this);
26    static Button[][] Lessons = new Button[9][5];
27
28    public TimeTable() {
29
30        setTitle("CompLab Time-table");
31        setBounds(20, 20, 800, 670);
32        Title.setFont(new Font("Arial", 0, 20));
33        Title.setForeground(Color.blue);
34        Monday.setFont(new Font("Arial", 0, 15));
35        Monday.setForeground(Color.blue);
36        Tuesday.setFont(new Font("Arial", 0, 15));
37        Tuesday.setForeground(Color.blue);
38        Wednesday.setFont(new Font("Arial", 0, 15));
39        Wednesday.setForeground(Color.blue);
40        Thursday.setFont(new Font("Arial", 0, 15));
41        Thursday.setForeground(Color.blue);
42        Friday.setFont(new Font("Arial", 0, 15));
43        Friday.setForeground(Color.blue);
44        Lesson.setFont(new Font("Arial", 0, 15));
45        Lesson.setForeground(Color.blue);
46        createButtons();
47    }
48    static int i; //Horizontal coordinate
49    static int j; //Vertical coordinate
50    static String[][] LessonInfo = new String[45][5]; // lessons max number is 9 * 5 = 45
51    static String[][] check = new String[9][5];
52
53    public void actions(Object source, String command) {
54        if (source == Exit) {
55            System.exit(0);

```



```

56     }
57     for (i = 0; i < 9; i++) {
58         for (j = 0; j < 5; j++) {
59             if (source == Lessons[i][j]) {
60                 new EditTT();
61                 dispose();
62             }
63         }
64     }
65 }
66 String lessonName = ""; //what to write on the button
67 static int count; // how many registered lessons we have in the "timetable.txt" file
68
69 static void createArray() {
70     String line;
71     //read information from file:
72     //Teacher's name, subject, day, period, grade.
73     try {
74         count = 0;
75         int index1;
76         int index2;
77         RandomAccessFile timetable = new RandomAccessFile("timetable.txt", "rw");
78         timetable.readLine(); // List title
79         timetable.readLine(); //empty line
80         // read lines from file and puts in the 2D array
81         while (timetable.length() != timetable.getFilePointer()) {
82             index1 = 0;
83             line = timetable.readLine();
84             index2 = line.indexOf("/");
85             LessonInfo[count][0] = line.substring(index1, index2);
86             index1 = index2;
87             index2 = line.indexOf("/", index1 + 1);
88             LessonInfo[count][1] = line.substring(index1 + 1, index2);
89             index1 = index2;
90             index2 = line.indexOf("/", index1 + 1);
91             LessonInfo[count][2] = line.substring(index1 + 1, index2);
92             index1 = index2;
93             index2 = line.indexOf("/", index1 + 1);
94             LessonInfo[count][3] = line.substring(index1 + 1, index2);
95             index1 = index2;
96             LessonInfo[count][4] = line.substring(index1 + 1);
97             count++;
98         }
99     } catch (IOException e) {
100         e.getMessage();
101     }
102 }
103
104 void createButtons() {
105     createArray();
106     // draw taken/used buttons
107     String buttonTitle;
108     int day;
109     int a, b;
110     String subject;

```

```

111 String teacherName;
112
113 for (int z = 0; z < count; z++) {
114     if (LessonInfo[z][1].length() > 4) {
115         subject = LessonInfo[z][1].substring(0, 4);
116     } else {
117         subject = LessonInfo[z][1];
118     }
119
120     teacherName = LessonInfo[z][0].substring(0, LessonInfo[z][0].indexOf(" ") + 2) + ".";
121     buttonTitle = teacherName + "/" + subject + "/" + LessonInfo[z][4];
122
123     if (LessonInfo[z][2].equals("Monday")) {
124         day = 0;
125     } else if (LessonInfo[z][2].equals("Tuesday")) {
126         day = 1;
127     } else if (LessonInfo[z][2].equals("Wednesday")) {
128         day = 2;
129     } else if (LessonInfo[z][2].equals("Thursday")) {
130         day = 3;
131     } else {
132         day = 4;
133     }
134     a = Integer.parseInt(LessonInfo[z][3]) - 1;
135     b = day;
136     Lessons[a][b] = addButton(buttonTitle, 160 + b * 120, 145 + a * 50, 120, 50, this);
137     check[a][b] = "ready";
138 }
139 //draw all the rest empty buttons
140 for (int i = 0; i < 9; i++) {
141     for (int j = 0; j < 5; j++) {
142         if (check[i][j] == null) {
143             Lessons[i][j] = addButton(lessonName, 160 + j * 120, 145 + i * 50, 120, 50, this);
144         }
145     }
146 }
147 }
148 }

```

```

1 package ttft;
2
3 import java.awt.*;
4 import java.io.RandomAccessFile;
5 import java.io.IOException;
6
7 public class findInfo extends EasyApp {
8
9     Label Title = addLabel("", 50, 50, 290, 40, this);
10    List info = addList("", 50, 100, 290, 200, this);
11    Button Exit = addButton("Exit", 240, 310, 100, 50, this);
12
13    public findInfo() {
14        setTitle("Find information");
15        setBounds(400, 80, 380, 380);
16        Title.setFont(new Font("Arial", 0, 15));
17        Title.setForeground(Color.blue);
18
19        if (Search.index == 0) {
20            Title.setText("Teacher - " + Search.text);
21        } else if (Search.index == 1) {
22            Title.setText("Subject - " + Search.text);
23        } else if (Search.index == 2) {
24            Title.setText("Day - " + Search.text);
25        } else {
26            Title.setText("Grade - " + Search.text);
27        }
28
29        information();
30    }
31
32    public void actions(Object source, String command) {
33        if (source == Exit) {
34            System.exit(0);
35        }
36    }
37
38    void information() {
39        TimeTable.createArray();
40        info.removeAll();
41        int i = 0;
42        int index = Search.index;
43        String line;
44        while (TimeTable.LessonInfo[i][0] != null) {
45            if (TimeTable.LessonInfo[i][index].equals(Search.text)) {
46                line = TimeTable.LessonInfo[i][0] + "/" + TimeTable.LessonInfo[i][1] + "/" +
TimeTable.LessonInfo[i][2] + "/" + TimeTable.LessonInfo[i][3] + "/" + TimeTable.LessonInfo[i][4];
47                info.add(line + "\n");
48            }
49            i++;
50        }
51    }
52 }

```