

## CenaFrame.java

```

1 package pacOrg;
2
3 import java.awt.EventQueue;
26
27 public class CenaFrame extends JFrame {
28
29     /**
30      *
31      */
32     private static final long serialVersionUID = 1L;
33     private JPanel contentPane;
34     private JTextField textField_0;
35     private JTextField textField_1;
36     private JTextField textField_2;
37     private JTextField textField_3;
38     private JTextField textField_4;
39
40     public Mwain mwain = new Mwain();
41     public Firma firma = new Firma();
42     public FrameX frameX = new FrameX();
43
44
45     /**
46      * Launch the application.
47      */
48     public static void main(String[] args) {
49         EventQueue.invokeLater(new Runnable() {
50             public void run() {
51                 try {
52                     CenaFrame frame = new CenaFrame();
53                     frame.setVisible(true);
54                     frame.setResizable(false);
55                 } catch (Exception e) {
56                     e.printStackTrace();
57                 }
58             }
59         });
60     }
61
62     /**
63      * Create the frame.
64      */
65     public CenaFrame() {
66         setFont(new Font("MS Gothic", Font.ITALIC, 14));
67         setTitle("Window Cena");
68         setBounds(100, 100, 820, 345);
69         contentPane = new JPanel();
70         contentPane.setBackground(new Color(211, 211, 211));
71         contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
72         setContentPane(contentPane);
73         contentPane.setLayout(null);
74
75         Panel panel = new Panel();
76         panel.setBackground(new Color(211, 211, 211));
77         panel.setBounds(10, 10, 390, 155);
78         contentPane.add(panel);
79         GridBagLayout gbl_panel = new GridBagLayout();
80         gbl_panel.columnWidths = new int[]{0, 0, 0, 0, 0, 0, 0};
81         gbl_panel.rowHeights = new int[]{0, 0, 0, 0, 0, 0, 0};
82         gbl_panel.columnWeights = new double[]{0.0, 0.0, 0.0, 0.0, 1.0, Double.MIN_VALUE};
83         gbl_panel.rowWeights = new double[]{0.0, 0.0, 0.0, 0.0, 0.0, 0.0,
Double.MIN_VALUE};

```

```

84     panel.setLayout(gbl_panel);
85
86     JLabel lblNewLabel = new JLabel("Broj kartona");
87     lblNewLabel.setFont(new Font("MS Gothic", Font.ITALIC, 14));
88     lblNewLabel.setToolTipText("Identifikacioni broj korisnika ID.");
89     GridBagConstraints gbc_lblNewLabel = new GridBagConstraints();
90     gbc_lblNewLabel.gridwidth = 4;
91     gbc_lblNewLabel.insets = new Insets(0, 0, 5, 5);
92     gbc_lblNewLabel.gridx = 0;
93     gbc_lblNewLabel.gridy = 0;
94     panel.add(lblNewLabel, gbc_lblNewLabel);
95
96     textField_0 = new JTextField();
97     textField_0.setToolTipText("Uneti broj kartona (Samo Cifre bez razmaka, i bez
decimale).");
98     GridBagConstraints gbc_textField_0 = new GridBagConstraints();
99     gbc_textField_0.insets = new Insets(0, 0, 5, 0);
100    gbc_textField_0.fill = GridBagConstraints.HORIZONTAL;
101    gbc_textField_0.gridx = 4;
102    gbc_textField_0.gridy = 0;
103    panel.add(textField_0, gbc_textField_0);
104    textField_0.setColumns(10);
105
106    JLabel lblNewLabel_1 = new JLabel("Ime pacijenta");
107    lblNewLabel_1.setFont(new Font("MS Gothic", Font.ITALIC, 14));
108    lblNewLabel_1.setToolTipText("Ime korisnika koje se treba uneti.");
109    GridBagConstraints gbc_lblNewLabel_1 = new GridBagConstraints();
110    gbc_lblNewLabel_1.gridwidth = 4;
111    gbc_lblNewLabel_1.insets = new Insets(0, 0, 5, 5);
112    gbc_lblNewLabel_1.gridx = 0;
113    gbc_lblNewLabel_1.gridy = 1;
114    panel.add(lblNewLabel_1, gbc_lblNewLabel_1);
115
116    textField_1 = new JTextField();
117    textField_1.setToolTipText("Ime String = Unos moze biti bilo sta.");
118    GridBagConstraints gbc_textField_1 = new GridBagConstraints();
119    gbc_textField_1.insets = new Insets(0, 0, 5, 0);
120    gbc_textField_1.fill = GridBagConstraints.HORIZONTAL;
121    gbc_textField_1.gridx = 4;
122    gbc_textField_1.gridy = 1;
123    panel.add(textField_1, gbc_textField_1);
124    textField_1.setColumns(10);
125
126    JLabel lblNewLabel_2 = new JLabel("Prezime pacijenta");
127    lblNewLabel_2.setFont(new Font("MS Gothic", Font.ITALIC, 14));
128    lblNewLabel_2.setToolTipText("Prezime korisnika koje se treba uneti.");
129    GridBagConstraints gbc_lblNewLabel_2 = new GridBagConstraints();
130    gbc_lblNewLabel_2.gridwidth = 4;
131    gbc_lblNewLabel_2.insets = new Insets(0, 0, 5, 5);
132    gbc_lblNewLabel_2.gridx = 0;
133    gbc_lblNewLabel_2.gridy = 2;
134    panel.add(lblNewLabel_2, gbc_lblNewLabel_2);
135
136    textField_2 = new JTextField();
137    textField_2.setToolTipText("Prezime String = Unos moze biti bilo sta.");
138    GridBagConstraints gbc_textField_2 = new GridBagConstraints();
139    gbc_textField_2.insets = new Insets(0, 0, 5, 0);
140    gbc_textField_2.fill = GridBagConstraints.HORIZONTAL;
141    gbc_textField_2.gridx = 4;
142    gbc_textField_2.gridy = 2;
143    panel.add(textField_2, gbc_textField_2);
144    textField_2.setColumns(10);

```

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145
146 JLabel lblNewLabel_3 = new JLabel("Dug");
147 lblNewLabel_3.setFont(new Font("MS Gothic", Font.ITALIC, 14));
148 lblNewLabel_3.setToolTipText("Uneti trosak posle operacije.");
149 GridBagConstraints gbc_lblNewLabel_3 = new GridBagConstraints();
150 gbc_lblNewLabel_3.gridwidth = 4;
151 gbc_lblNewLabel_3.insets = new Insets(0, 0, 5, 5);
152 gbc_lblNewLabel_3.gridx = 0;
153 gbc_lblNewLabel_3.gridy = 3;
154 panel.add(lblNewLabel_3, gbc_lblNewLabel_3);
155
156 textField_3 = new JTextField();
157 textField_3.setToolTipText("double unos moze biti samo broj ! sa ili bez
decimala.");
158 GridBagConstraints gbc_textField_3 = new GridBagConstraints();
159 gbc_textField_3.insets = new Insets(0, 0, 5, 0);
160 gbc_textField_3.fill = GridBagConstraints.HORIZONTAL;
161 gbc_textField_3.gridx = 4;
162 gbc_textField_3.gridy = 3;
163 panel.add(textField_3, gbc_textField_3);
164 textField_3.setColumns(10);
165
166 JLabel lblNewLabel_4 = new JLabel("Placeno");
167 lblNewLabel_4.setFont(new Font("MS Gothic", Font.ITALIC, 14));
168 lblNewLabel_4.setToolTipText("Unesti kolicinu novca koja je placena.");
169 GridBagConstraints gbc_lblNewLabel_4 = new GridBagConstraints();
170 gbc_lblNewLabel_4.gridwidth = 4;
171 gbc_lblNewLabel_4.insets = new Insets(0, 0, 5, 5);
172 gbc_lblNewLabel_4.gridx = 0;
173 gbc_lblNewLabel_4.gridy = 4;
174 panel.add(lblNewLabel_4, gbc_lblNewLabel_4);
175
176 textField_4 = new JTextField();
177 textField_4.setToolTipText("double Unos more biti samo broj sa ili bez decimala.");
178 GridBagConstraints gbc_textField_4 = new GridBagConstraints();
179 gbc_textField_4.insets = new Insets(0, 0, 5, 0);
180 gbc_textField_4.fill = GridBagConstraints.HORIZONTAL;
181 gbc_textField_4.gridx = 4;
182 gbc_textField_4.gridy = 4;
183 panel.add(textField_4, gbc_textField_4);
184 textField_4.setColumns(10);
185
186 Panel panel_1 = new Panel();
187 panel_1.setBackground(new Color(211, 211, 211));
188 panel_1.setBounds(10, 171, 192, 135);
189 contentPane.add(panel_1);
190 GridBagLayout gbl_panel_1 = new GridBagLayout();
191 gbl_panel_1.columnWidths = new int[]{0, 0};
192 gbl_panel_1.rowHeights = new int[]{0, 0, 0, 0, 0, 0};
193 gbl_panel_1.columnWeights = new double[]{1.0, Double.MIN_VALUE};
194 gbl_panel_1.rowWeights = new double[]{0.0, 0.0, 0.0, 0.0, 0.0, Double.MIN_VALUE};
195 panel_1.setLayout(gbl_panel_1);
196
197 JButton btnNewButton = new JButton("Unos podataka cena");
198 btnNewButton.addActionListener(new ActionListener() {
199     public void actionPerformed(ActionEvent e) {
200
201         firma.loadCena("cene.txt");
202
203         String id = textField_0.getText().trim();
204         String ime = textField_1.getText().trim();
205         String prezime = textField_2.getText().trim();

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206         String dug = textField_3.getText().trim();
207         String placeno = textField_4.getText().trim();
208
209         if (Mwain.isNumber(id)== true) {
210
211             if (Mwain.isDecimalNumber(dug)== true) {
212
213                 if (Mwain.isDecimalNumber(placeno)== true) {
214
215                     int idX = Integer.parseInt(id);
216                     double dugX = Double.parseDouble(dug);
217                     double placenoX = Double.parseDouble(placeno);
218                     double trenutnoStanje = dugX- placenoX;
219
220                     Cena cena = new Cena(idX, ime, prezime, dugX, placenoX,
221 trenutnoStanje);
222
223                     boolean provera = firma.unosCene(cena);
224                     if (provera) {
225                         JOptionPane.showMessageDialog(null, "unos cene je uspesno
226 uradjen.", "Unos uspesno uradjen", 1);
227                         //System.out.println("unos cene je uspesno uradjen.");
228                     }else {
229                         JOptionPane.showMessageDialog(null, "unos cene je neuspesno
230 uradjen.", "Unos neuspesno uradjen", 1);
231                         //System.out.println("unos cene je neuspesno izrsen.");
232                     }
233
234                 }else {
235
236                     JOptionPane.showMessageDialog(null, "Unos mora biti samo broj",
237 "GRESKA PRI UNOSU !", 1);
238                 }
239
240             }else {
241
242                 JOptionPane.showMessageDialog(null, "Unos mora biti samo broj",
243 "GRESKA PRI UNOSU !", 1);
244             }
245
246         }else {
247
248             JOptionPane.showMessageDialog(null, "Unos mora biti samo broj, bez
249 razmaka, bez decimala !", "GRESKA PRI UNOSU !", 1);
250         }
251
252     });
253     btnNewButton.setFont(new Font("MS Gothic", Font.ITALIC, 12));
254     btnNewButton.setToolTipText("Unos u listu podataka gornje unetih informacija.");
255     GridBagConstraints gbc_btnNewButton = new GridBagConstraints();
256     gbc_btnNewButton.insets = new Insets(0, 0, 5, 0);
257     gbc_btnNewButton.fill = GridBagConstraints.HORIZONTAL;
258     gbc_btnNewButton.gridx = 0;
259     gbc_btnNewButton.gridy = 0;
260     panel_1.add(btnNewButton, gbc_btnNewButton);
261
262     JButton btnNewButton_1 = new JButton("Izmena lista ID");
263     btnNewButton_1.addActionListener(new ActionListener() {
264         public void actionPerformed(ActionEvent e) {

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262
263         firma.loadCena("cene.txt");
264
265         String id = textField_0.getText().trim();
266         String dug = textField_3.getText().trim();
267         String placeno = textField_4.getText().trim();
268
269         if (Mwain.isNumber(id)== true) {
270
271             if (Mwain.isDecimalNumber(dug)== true) {
272
273                 if (Mwain.isDecimalNumber(placeno)== true) {
274
275                     int idX = Integer.parseInt(id);
276                     double dugX = Double.parseDouble(dug);
277                     double placenoX = Double.parseDouble(placeno);
278                     Cena cena = new Cena(idX, dugX, placenoX);
279                     Cena cena2 = firma.izmenaCenaID(cena);
280                     if (cena2 != null) {
281                         JOptionPane.showMessageDialog(null, "Izmena cene je uspesno
uradjen.", "izmena uspesno uradjen", 1);
282                         //System.out.println("Izmena je uspesno uradjena.");
283                     }else {
284                         JOptionPane.showMessageDialog(null, "Izmena cene je
neuspesno uradjen.", "izmena neuspesno uradjen", 1);
285                         System.out.println("Izmena je neuspesno uradjena.");
286                     }
287
288                 }else {
289
290                     JOptionPane.showMessageDialog(null, "Unos mora biti samo broj",
"GRESKA PRI UNOSU !", 1);
291                 }
292
293             }else {
294                 JOptionPane.showMessageDialog(null, "Unos mora biti samo broj",
"GRESKA PRI UNOSU !", 1);
295             }
296
297         }else {
298             JOptionPane.showMessageDialog(null, "Unos mora biti samo broj, bez
razmaka, bez decimala !", "GRESKA PRI UNOSU !", 1);
299         }
300     }
301
302 }
303
304 btnNewButton_1.setFont(new Font("MS Gothic", Font.ITALIC, 12));
305 btnNewButton_1.setToolTipText("Izmena jedne instance grupe podataka na osnovu
identifikatora (broj kartona).");
306 GridBagConstraints gbc_btnNewButton_1 = new GridBagConstraints();
307 gbc_btnNewButton_1.fill = GridBagConstraints.HORIZONTAL;
308 gbc_btnNewButton_1.insets = new Insets(0, 0, 5, 0);
309 gbc_btnNewButton_1.gridx = 0;
310 gbc_btnNewButton_1.gridy = 1;
311 panel_1.add(btnNewButton_1, gbc_btnNewButton_1);
312
313 JButton btnNewButton_2 = new JButton("Izmena lista Ime + Prezime");
314 btnNewButton_2.addActionListener(new ActionListener() {
315     public void actionPerformed(ActionEvent e) {
316
317         firma.loadCena("cene.txt");

```

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```

318
319
320     String dug = textField_3.getText().trim();
321     String placeno = textField_4.getText().trim();
322     String ime = textField_1.getText().trim();
323     String prezime = textField_2.getText().trim();
324
325     if (Mwain.isDecimalNumber(dug)== true) {
326
327         if (Mwain.isDecimalNumber(placeno)== true) {
328
329
330             double dugX = Double.parseDouble(dug);
331             double placenoX = Double.parseDouble(placeno);
332
333
334             Cena cena = new Cena(ime, prezime, dugX, placenoX);
335             Cena cena2 = firma.izmenaCenaImePrezime(cena);
336             if (cena2 != null) {
337                 JOptionPane.showMessageDialog(null, "Izmena cene je uspesno
uradjen.", "izmena uspesno uradjen", 1);
338                 //System.out.println("Izmena je uspesno uradjena.");
339             }else {
340                 JOptionPane.showMessageDialog(null, "Izmena cene je neuspesno
uradjen.", "izmena neuspesno uradjen", 1);
341                 //System.out.println("Izmena je neuspesno uradjena.");
342             }
343
344             }else {
345
346                 JOptionPane.showMessageDialog(null, "Unos mora biti samo broj",
"GRESKA PRI UNOSU !", 1);
347             }
348
349
350         }else {
351             JOptionPane.showMessageDialog(null, "Unos mora biti samo broj", "GRESKA
PRI UNOSU !", 1);
352         }
353
354     }
355 });
356 btnNewButton_2.setFont(new Font("MS Gothic", Font.ITALIC, 12));
357 btnNewButton_2.setToolTipText("Izmena jedne instance liste podataka na osnovu
proslednjenog imena i prezimena.");
358 GridBagConstraints gbc_btnNewButton_2 = new GridBagConstraints();
359 gbc_btnNewButton_2.fill = GridBagConstraints.HORIZONTAL;
360 gbc_btnNewButton_2.insets = new Insets(0, 0, 5, 0);
361 gbc_btnNewButton_2.gridx = 0;
362 gbc_btnNewButton_2.gridy = 2;
363 panel_1.add(btnNewButton_2, gbc_btnNewButton_2);
364
365 JButton btnNewButton_3 = new JButton("Nulliranje");
366 btnNewButton_3.addActionListener(new ActionListener() {
367     public void actionPerformed(ActionEvent e) {
368
369         firma.loadCena("cene.txt");
370
371         String id = textField_0.getText().trim();
372
373         if (Mwain.isNumber(id)== true) {
374

```



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```

375         int IdX = Integer.parseInt(id);
376         double dug = 0.0;
377         double placeno = 0.0;
378         double trenutnoStanje = 0.0;
379
380         Cena cena = new Cena(IdX, dug, placeno, trenutnoStanje);
381         Cena cena2 = firma.nuliranjeCeneID(cena);
382         if (cena2 != null) {
383             JOptionPane.showMessageDialog(null, "Nuliranje je uspesno uradjeno
!", "Operacija ok.", 1);
384             System.out.println("Izmena je uspesno uradjena.");
385         } else {
386             JOptionPane.showMessageDialog(null, "Nuliranje je neuspesno
uradjeno proverite ID !", "Greska pri unosu.", 1);
387             System.out.println("Izmena je nespesno uradjena.");
388         }
389     } else {
390
391         JOptionPane.showMessageDialog(null, "ID moze biti samo broj ! bez
decimala !", "Greska pri unosu.", 1);
392     }
393 }
394
395
396
397 }
398 });
399 btnNewButton_3.setFont(new Font("MS Gothic", Font.ITALIC, 12));
400 btnNewButton_3.setToolTipText("Stavljanje vrednosti na 0 na osnovu identifikacionog
broja ID ( broj kartona).");
401 GridBagConstraints gbc_btnNewButton_3 = new GridBagConstraints();
402 gbc_btnNewButton_3.fill = GridBagConstraints.HORIZONTAL;
403 gbc_btnNewButton_3.insets = new Insets(0, 0, 5, 0);
404 gbc_btnNewButton_3.gridx = 0;
405 gbc_btnNewButton_3.gridy = 3;
406 panel_1.add(btnNewButton_3, gbc_btnNewButton_3);
407
408 Panel panel_2 = new Panel();
409 panel_2.setBackground(new Color(211, 211, 211));
410 panel_2.setBounds(208, 171, 192, 135);
411 contentPane.add(panel_2);
412 GridBagLayout gbl_panel_2 = new GridBagLayout();
413 gbl_panel_2.columnWidths = new int[]{0, 0};
414 gbl_panel_2.rowHeights = new int[]{0, 0, 0, 0, 0, 0};
415 gbl_panel_2.columnWeights = new double[]{1.0, Double.MIN_VALUE};
416 gbl_panel_2.rowWeights = new double[]{0.0, 0.0, 0.0, 0.0, 0.0, Double.MIN_VALUE};
417 panel_2.setLayout(gbl_panel_2);
418
419 JButton btnListaSvihCena = new JButton("Lista svih cena");
420 btnListaSvihCena.addActionListener(new ActionListener() {
421     public void actionPerformed(ActionEvent arg0) {
422
423         Console console = new Console();
424         console.init();
425         firma.lstCena();
426
427     }
428 });
429 btnListaSvihCena.setToolTipText("Lista svih podataka iz klase cene.");
430 btnListaSvihCena.setFont(new Font("MS Gothic", Font.ITALIC, 12));
431 GridBagConstraints gbc_btnListaSvihCena = new GridBagConstraints();
432 gbc_btnListaSvihCena.fill = GridBagConstraints.HORIZONTAL;

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433     gbc_btnListaSvihCena.insets = new Insets(0, 0, 5, 0);
434     gbc_btnListaSvihCena.gridx = 0;
435     gbc_btnListaSvihCena.gridy = 0;
436     panel_2.add(btnListaSvihCena, gbc_btnListaSvihCena);
437
438     JButton btnListaCenaId = new JButton("Lista cena ID");
439     btnListaCenaId.addActionListener(new ActionListener() {
440         public void actionPerformed(ActionEvent arg0) {
441
442             String id = textField_0.getText().trim();
443             if (Mwain.isNumber(id)== true) {
444
445                 int idX = Integer.parseInt(id);
446                 Console console = new Console();
447                 console.init();
448                 firma.lstCenaI(idX);
449
450             } else {
451
452                 JOptionPane.showMessageDialog(null, "ID moze biti samo broj", "GRESKA
PRI PARSIRANJU !", 1);
453
454             }
455
456         }
457     });
458     btnListaCenaId.setToolTipText("Lista cena po Identifikatoru - preporuceno");
459     btnListaCenaId.setFont(new Font("MS Gothic", Font.ITALIC, 12));
460     GridBagConstraints gbc_btnListaCenaId = new GridBagConstraints();
461     gbc_btnListaCenaId.fill = GridBagConstraints.HORIZONTAL;
462     gbc_btnListaCenaId.insets = new Insets(0, 0, 5, 0);
463     gbc_btnListaCenaId.gridx = 0;
464     gbc_btnListaCenaId.gridy = 1;
465     panel_2.add(btnListaCenaId, gbc_btnListaCenaId);
466
467     JButton btnListaIme = new JButton("Lista Ime & Prezime");
468     btnListaIme.addActionListener(new ActionListener() {
469         public void actionPerformed(ActionEvent arg0) {
470
471             String ime = textField_1.getText().trim();
472             String prezime = textField_2.getText().trim();
473
474             Console console = new Console();
475             console.init();
476             firma.lstCenaImePrezime(ime, prezime);
477
478         }
479     });
480     btnListaIme.setToolTipText("Lista cena po imenu i prezimenu");
481     btnListaIme.setFont(new Font("MS Gothic", Font.ITALIC, 12));
482     GridBagConstraints gbc_btnListaIme = new GridBagConstraints();
483     gbc_btnListaIme.fill = GridBagConstraints.HORIZONTAL;
484     gbc_btnListaIme.insets = new Insets(0, 0, 5, 0);
485     gbc_btnListaIme.gridx = 0;
486     gbc_btnListaIme.gridy = 2;
487     panel_2.add(btnListaIme, gbc_btnListaIme);
488
489     JButton btnBrisanjeI = new JButton("Brisanje ID");
490     btnBrisanjeI.addActionListener(new ActionListener() {
491         public void actionPerformed(ActionEvent e) {
492
493             String id = textField_0.getText().trim();

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494
495         if (Mwain.isNumber(id)== true) {
496
497             int idC = Integer.parseInt(id);
498
499             //Console console = new Console();
500             //console.init();
501             Cena provera = firma.cenaBrisanjeID(idC);
502             if (provera == null) {
503                 JOptionPane.showMessageDialog(null, "ID ne postoji u listi
504 podataka", "GRESKA PRI UNOSU !", 1);
505                 System.out.println("Zadati broj ne postoji u listi.");
506             }
507         } else {
508             JOptionPane.showMessageDialog(null, "ID moze biti samo broj", "GRESKA
509 PRI UNOSU !", 1);
510         }
511     });
512     btnBrisanjeI.setToolTipText("Brisanje jedne instance podataka po identifikatoru");
513     btnBrisanjeI.setFont(new Font("MS Gothic", Font.ITALIC, 12));
514     GridBagConstraints gbc_btnBrisanjeI = new GridBagConstraints();
515     gbc_btnBrisanjeI.fill = GridBagConstraints.HORIZONTAL;
516     gbc_btnBrisanjeI.insets = new Insets(0, 0, 5, 0);
517     gbc_btnBrisanjeI.gridx = 0;
518     gbc_btnBrisanjeI.gridy = 3;
519     panel_2.add(btnBrisanjeI, gbc_btnBrisanjeI);
520
521     JLabel labelMoney = new JLabel("");
522     Image img1 = new ImageIcon(this.getClass().getResource("/money3.png")).getImage();
523     // this code is usefull copy it latter
524     labelMoney.setIcon(new ImageIcon(img1));
525     labelMoney.setBounds(406, 10, 386, 296);
526     contentPane.add(labelMoney);
527 }
528

```