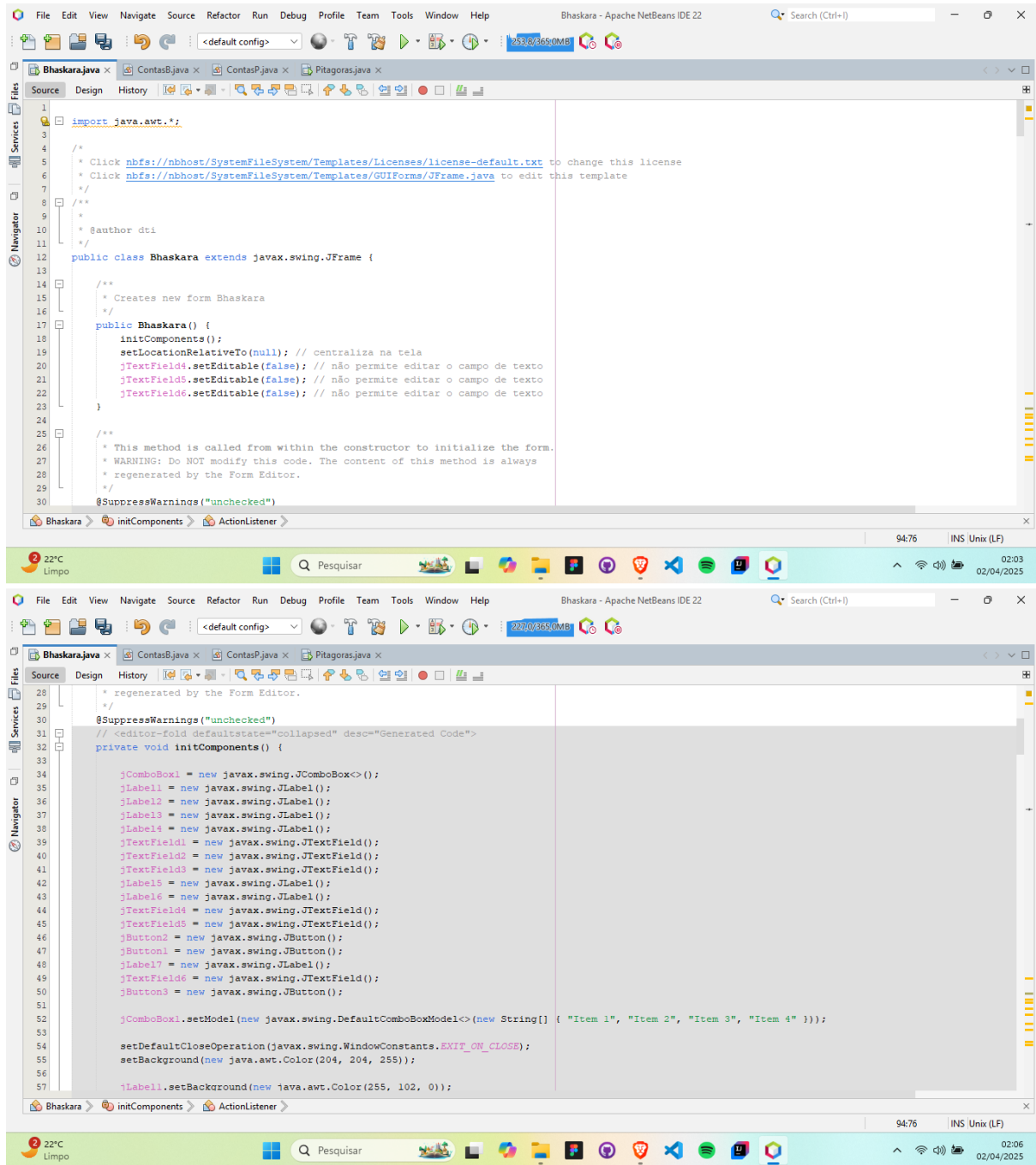


Atividade Ds

Bhaskara



```
58 jLabel1.setFont(new java.awt.Font("Serif", 1, 18)); // NOI18N
59 jLabel1.setForeground(new java.awt.Color(0, 0, 255));
60 jLabel1.setText("Bhaskara");
61
62 jLabel2.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
63 jLabel2.setForeground(new java.awt.Color(204, 0, 0));
64 jLabel2.setText("A");
65
66 jLabel3.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
67 jLabel3.setForeground(new java.awt.Color(204, 0, 0));
68 jLabel3.setText("B");
69
70 jLabel4.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
71 jLabel4.setForeground(new java.awt.Color(204, 0, 0));
72 jLabel4.setText("C");
73
74
75 jTextField1.setBackground(new java.awt.Color(255, 204, 204));
76 jTextField1.addActionListener(new java.awt.event.ActionListener() {
77     public void actionPerformed(java.awt.event.ActionEvent evt) {
78         jTextField1ActionPerformed(evt);
79     }
80 });
81
82 jTextField2.setBackground(new java.awt.Color(255, 204, 204));
83
84 jTextField3.setBackground(new java.awt.Color(255, 204, 204));
85
86 jLabel5.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
87 jLabel5.setForeground(new java.awt.Color(0, 153, 51));
88 jLabel5.setText("X1");
```

```
89
90 jLabel6.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
91 jLabel6.setForeground(new java.awt.Color(0, 153, 51));
92 jLabel6.setText("X2");
93
94 jTextField4.setBackground(new java.awt.Color(204, 255, 204));
95 jTextField4.addActionListener(new java.awt.event.ActionListener() {
96     public void actionPerformed(java.awt.event.ActionEvent evt) {
97         jTextField4ActionPerformed(evt);
98     }
99 });
100
101 jTextField5.setBackground(new java.awt.Color(204, 255, 204));
102 jTextField5.addActionListener(new java.awt.event.ActionListener() {
103     public void actionPerformed(java.awt.event.ActionEvent evt) {
104         jTextField5ActionPerformed(evt);
105     }
106 });
107
108 jButton2.setBackground(new java.awt.Color(255, 255, 204));
109 jButton2.setFont(new java.awt.Font("Segoe UI Black", 1, 12)); // NOI18N
110 jButton2.setText("Calcular");
111 jButton2.addActionListener(new java.awt.event.ActionListener() {
112     public void actionPerformed(java.awt.event.ActionEvent evt) {
113         jButton2ActionPerformed(evt);
114     }
115 });
116
117 jButton1.setBackground(new java.awt.Color(255, 204, 204));
118 jButton1.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
```

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Bhaskara - Apache NetBeans IDE 22 Search (Ctrl+I)

<default config> 244/365 KB

Bhaskara.java x ContasB.java x ContasP.java x Pitagoras.java x

Source Design History

115 JButton1.setBackground(new java.awt.Color(255, 204, 204));
116 JButton1.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
117 JButton1.setText("Sair");
118 JButton1.addActionListener(new java.awt.event.ActionListener() {
119     public void actionPerformed(java.awt.event.ActionEvent evt) {
120         JButton1ActionPerformed(evt);
121     }
122 });
123
124
125 JLabel7.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
126 JLabel7.setForeground(new java.awt.Color(153, 51, 255));
127 JLabel7.setText("Delta");
128
129
130 JTextField6.setBackground(new java.awt.Color(204, 204, 255));
131 JTextField6.addActionListener(new java.awt.event.ActionListener() {
132     public void actionPerformed(java.awt.event.ActionEvent evt) {
133         JTextField6ActionPerformed(evt);
134     }
135 });
136
137 JButton3.setBackground(new java.awt.Color(204, 204, 255));
138 JButton3.setFont(new java.awt.Font("Segoe UI Black", 0, 12)); // NOI18N
139 JButton3.setText("Limpar");
140 JButton3.setHorizontalTextPosition(javax.swing.SwingConstants.CENTER);
141 JButton3.addActionListener(new java.awt.event.ActionListener() {
142     public void actionPerformed(java.awt.event.ActionEvent evt) {
143         JButton3ActionPerformed(evt);
144     }
145 });

Bhaskara > initComponents > ActionListener
```

```
Rodovia Preside... Estrada fechada Pesquisar 02:10 02/04/2025

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Bhaskara - Apache NetBeans IDE 22 Search (Ctrl+I)

<default config> 244/365 KB

Bhaskara.java x ContasB.java x ContasP.java x Pitagoras.java x

Source Design History

145 javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
146 getContentPane().setLayout(layout);
147 layout.setHorizontalGroup(
148     layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
149     .addGroup(layout.createSequentialGroup()
150         .addGroup(layout.createSequentialGroup()
151             .addGap(32, 32, 32)
152             .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
153                 .addComponent(jLabel14)
154                 .addGap(18, 18, 18)
155                 .addComponent(jTextField3)
156             )
157         .addGroup(layout.createSequentialGroup()
158             .addComponent(jLabel13)
159             .addGap(18, 18, 18)
160             .addComponent(jTextField2)
161         )
162         .addGroup(layout.createSequentialGroup()
163             .addComponent(jLabel12)
164             .addGap(18, 18, 18)
165             .addComponent(jTextField1)
166         )
167         .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
168             .addGroup(layout.createSequentialGroup()
169                 .addComponent(jLabel5)
170                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
171                 .addComponent(jTextField4)
172             )
173             .addGroup(layout.createSequentialGroup()
174                 .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
175                     .addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()
176                         .addComponent(jLabel6)
177                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
178                     )
179                     .addGroup(layout.createSequentialGroup()
180                         .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
181                             .addGroup(layout.createSequentialGroup()
182                                 .addComponent(jLabel11)
183                                 .addGap(18, 18, 18)
184                                 .addComponent(jTextField5)
185                             )
186                             .addGroup(layout.createSequentialGroup()
187                                 .addComponent(jLabel10)
188                                 .addGap(18, 18, 18)
189                                 .addComponent(jTextField6)
190                             )
191                         )
192                     .addGroup(layout.createSequentialGroup()
193                         .addComponent(jLabel9)
194                         .addGap(18, 18, 18)
195                         .addComponent(jTextField7)
196                     )
197                 )
198             )
199         )
200     )
201     .addGroup(layout.createSequentialGroup()
202         .addComponent(jLabel8)
203         .addGap(18, 18, 18)
204         .addComponent(jLabel7)
205     )
206     .addGroup(layout.createSequentialGroup()
207         .addComponent(jLabel4)
208         .addGap(18, 18, 18)
209         .addComponent(jLabel3)
210         .addGap(18, 18, 18)
211         .addComponent(jLabel2)
212     )
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Bhaskara > initComponents > ActionListener
```



```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Bhaskara - Apache NetBeans IDE 22 Search (Ctrl+I)

Bhaskara.java x ContasB.java x ContasP.java x Pitagoras.java x

Source Design History

ContasB contas = new ContasB();

235
236
237
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
239     double a = Double.parseDouble(jTextField1.getText()); // convertendo string para double
240     double b = Double.parseDouble(jTextField2.getText()); // convertendo string para double
241     double c = Double.parseDouble(jTextField3.getText()); // convertendo string para double
242     contas.delta((b * b) - (4 * a * c)); // calcula o delta
243     contas.raiz(java.lang.Math.sqrt(contas.delta)); // calcula a raiz do delta
244     contas.xisum((-b + contas.raiz) / (2 * a)); // calcula o X1
245     contas.xisdois((-b - contas.raiz) / (2 * a)); // calcula o X2
246
247     if (contas.delta < 0) { // se o delta for negativo
248         jTextField4.setText("Erro"); // emite mensagem de erro
249         jTextField5.setText("Erro"); // emite mensagem de erro
250     } else { // se não
251         jTextField4.setText(String.valueOf(contas.xisum)); // exibe o X1
252         jTextField5.setText(String.valueOf(contas.xisdois)); // exibe X2
253         jTextField6.setText(String.valueOf(contas.delta)); // exibe o delta
254     }
255 }
256
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
258     System.exit(0); // encerra o programa
259 }
260
private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
262     // TODO add your handling code here:
263 }
264

Bhaskara > initComponents > ActionListener
```

```
22°C Limpo Pesquisar 94:76 INS Unix (LF) 02:14 02/04/2025

File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Bhaskara - Apache NetBeans IDE 22 Search (Ctrl+I)

Bhaskara.java x ContasB.java x ContasP.java x Pitagoras.java x

Source Design History

266
267
268
269
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
271     jTextField1.setText(""); // ao clicar no botão limpar, exibe nada, limpando o campo de texto
272     jTextField2.setText(""); // ao clicar no botão limpar, exibe nada, limpando o campo de texto
273     jTextField3.setText(""); // ao clicar no botão limpar, exibe nada, limpando o campo de texto
274     jTextField4.setText(""); // ao clicar no botão limpar, exibe nada, limpando o campo de texto
275     jTextField5.setText(""); // ao clicar no botão limpar, exibe nada, limpando o campo de texto
276     jTextField6.setText(""); // ao clicar no botão limpar, exibe nada, limpando o campo de texto
277 }
278
private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt) {
280     // TODO add your handling code here:
281 }
282
private void jTextField5ActionPerformed(java.awt.event.ActionEvent evt) {
285     // TODO add your handling code here:
286 }
287
/**
288  * @param args the command line arguments
289  */
290
public static void main(String args[]) {
292     /* Set the Nimbus look and feel */
293     Look and feel setting code (optional)
314 }

Bhaskara > initComponents > ActionListener

94:76 INS Unix (LF) 02:15 02/04/2025
```

Bhaskara - Apache NetBeans IDE 22

```
/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Bhaskara().setVisible(true);
    }
});

// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JComboBox<String> jComboBox1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
private javax.swing.JTextField jTextField5;
private javax.swing.JTextField jTextField6;
// End of variables declaration
}
```

Bhaskara > initComponents > ActionListener

22°C Limpo

Pesquisar

Bhaskara - Apache NetBeans IDE 22

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
/**
 *
 * @author dti
 */
public class ContasB {

    double delta;
    void delta(Double deltaN){
        this.delta = deltaN;
    }

    double raiz;
    void raiz(Double raizN){
        this.raiz = raizN;
    }

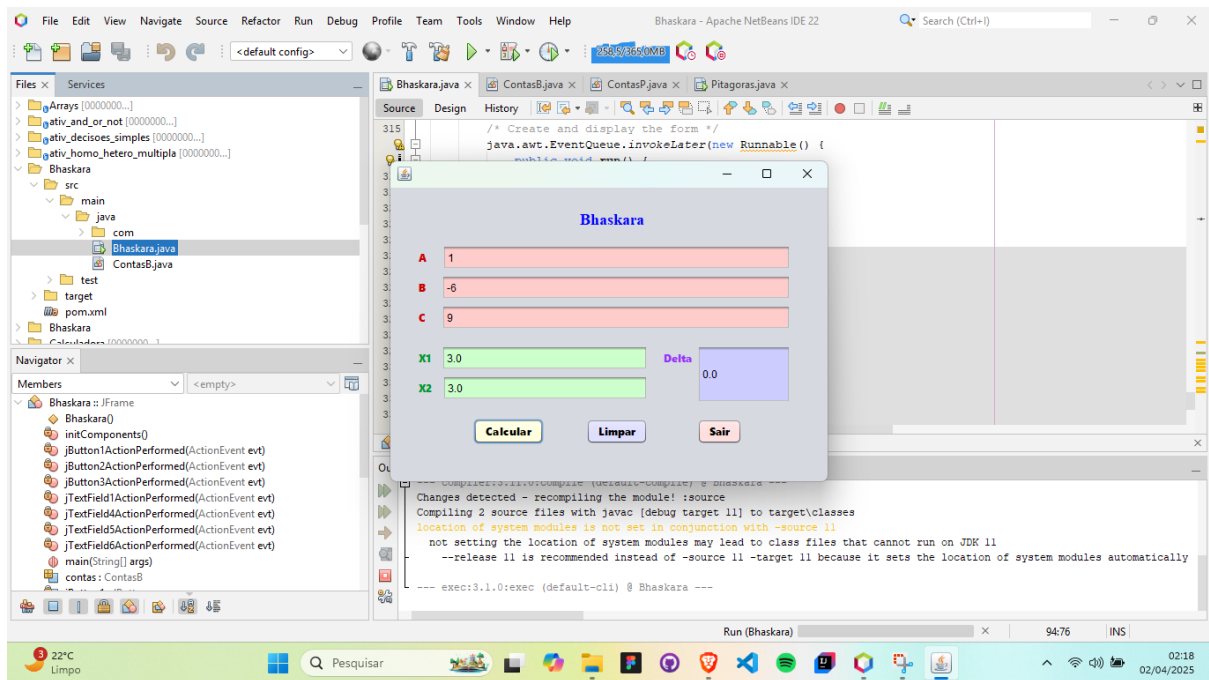
    double xisum;
    void xisum(Double xisumN){
        this.xisum = xisumN;
    }

    double xisdois;
    void xisdois(Double xisdoisN){
        this.xisdois = xisdoisN;
    }
}
```

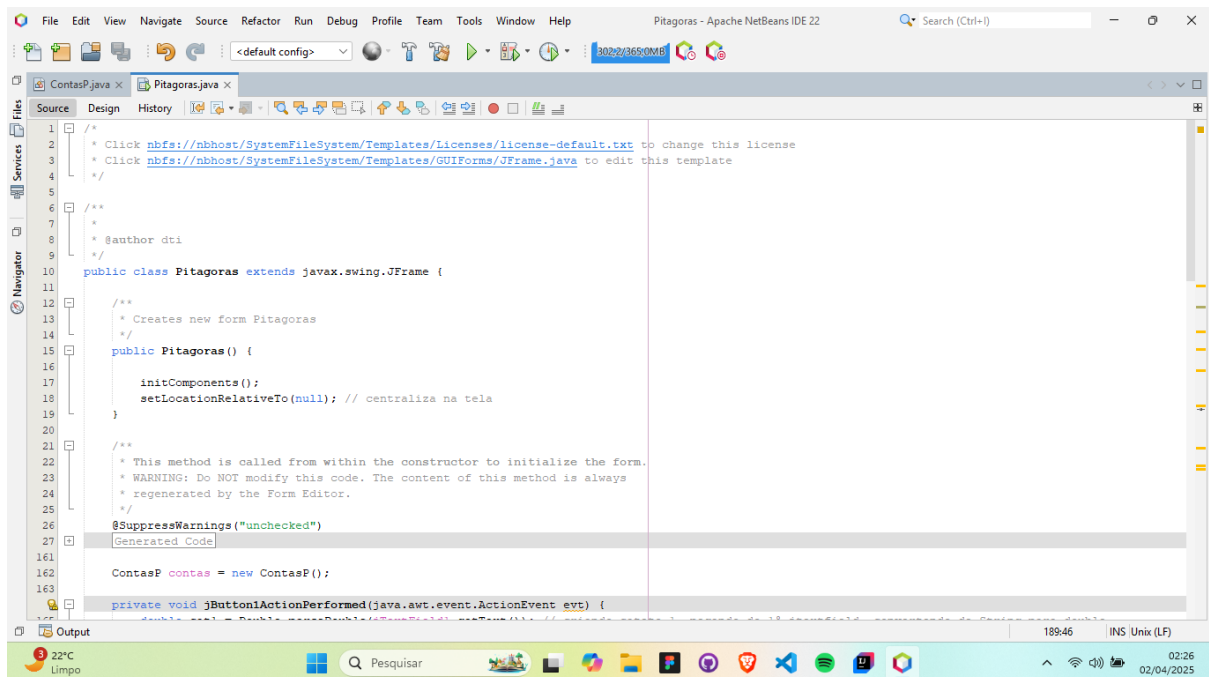
1:1 INS Windows (CRLF)

22°C Limpo

Pesquisar



Pitágoras



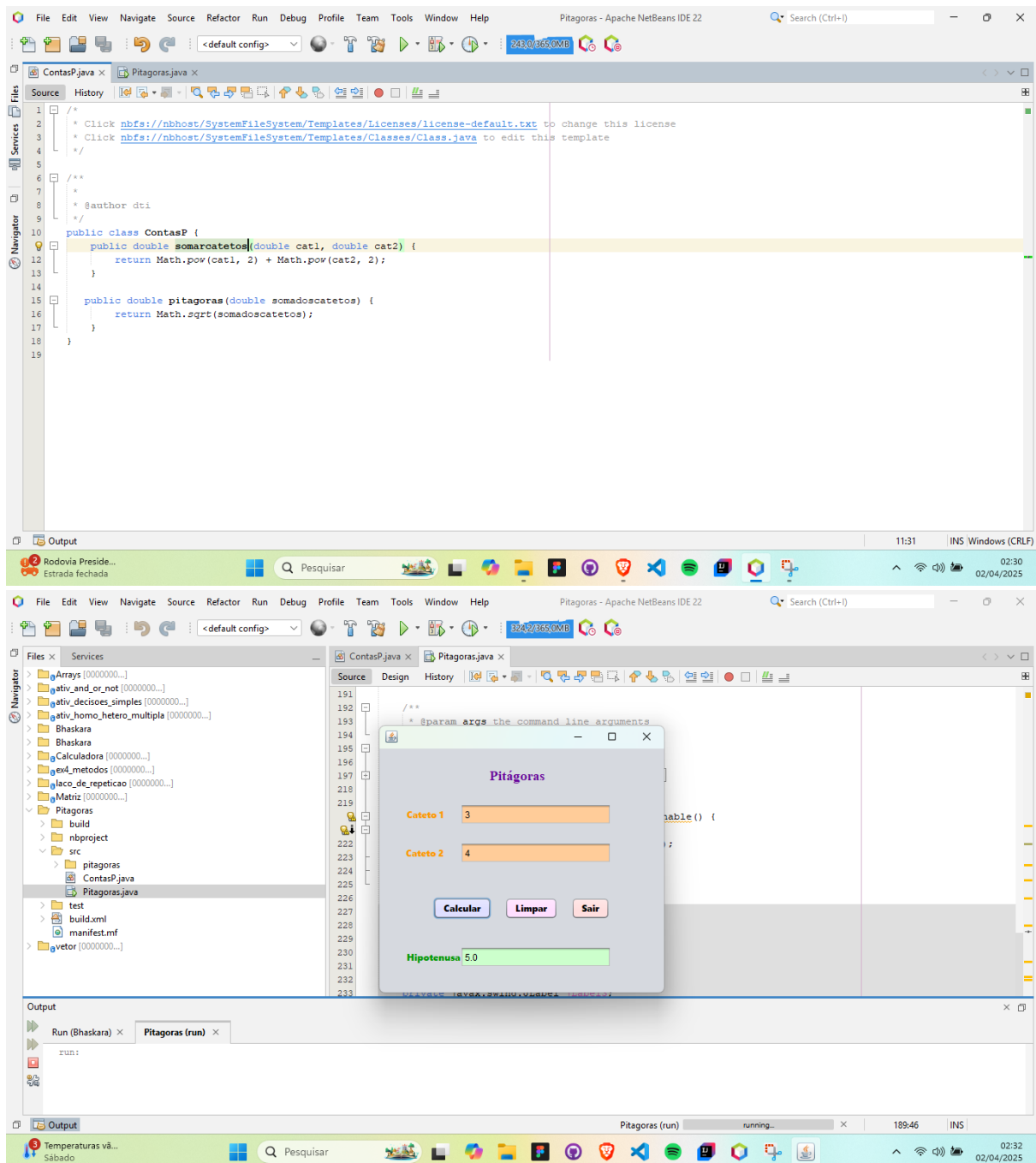

```
File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help Pitagoras - Apache NetBeans IDE 22 Search (Ctrl+I)

ContasP.java x Pitagoras.java x

Source Design History

161 ContasP contas = new ContasP();
162
163
164 private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
165     double cat1 = Double.parseDouble(jTextField1.getText()); // criando cateto 1, pegando do 1º jTextField, convertendo de String para double
166     double cat2 = Double.parseDouble(jTextField2.getText()); // criando cateto 2, pegando do 2º jTextField, convertendo de String para double
167     double somaDosQuadrados = contas.somarCatetos(cat1, cat2); // soma os catetos
168     double hipotenusa = contas.pitagoras(somaDosQuadrados); // calcula a hipotenusa
169     jTextField3.setText(String.valueOf(hipotenusa)); // exibe a hipotenusa
170
171 }
172
173 private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {
174     // TODO add your handling code here:
175 }
176
177 private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
178     // TODO add your handling code here:
179 }
180
181 private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
182     jTextField1.setText(""); // ao clicar no botão limpar, exibe nada, limpando o campo de texto
183     jTextField2.setText(""); // ao clicar no botão limpar, exibe nada, limpando o campo de texto
184     jTextField3.setText(""); // ao clicar no botão limpar, exibe nada, limpando o campo de texto
185     // TODO add your handling code here:
186 }
187
188 private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
189     System.exit(0); // encerra o programa
190 }
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Observação

O projeto de Bhaskara foi criado com java with Maven e o de Pitágoras foi criado com java with Ant, para fins de teste, se havia, ou não, alguma diferença na forma de fazer a interface e no conteúdo apresentado (resultado).