Codigo Fonte do Projeto Calculadora de IMC

```java
import java.awt.Color;

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */

/**
 *
 * @author migue
 */
public class TelaPrincipal extends javax.swing.JFrame {
    float txtpes,txtalt,imc;
    String txtn;

    public TelaPrincipal() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
```

```java
    private void initComponents() {


        jPanel1 = new javax.swing.JPanel();

        txtpeso = new javax.swing.JTextField();

        txtaltura = new javax.swing.JTextField();

        jLabel1 = new javax.swing.JLabel();

        jLabel2 = new javax.swing.JLabel();

        jLabel3 = new javax.swing.JLabel();

        jLabel4 = new javax.swing.JLabel();

        resppainel = new javax.swing.JPanel();

        info = new javax.swing.JLabel();

        text1 = new javax.swing.JLabel();

        respimc = new javax.swing.JLabel();

        situation = new javax.swing.JLabel();

        btncalc = new javax.swing.JButton();

        btcnclean = new javax.swing.JButton();


        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        setBackground(new java.awt.Color(0, 51, 204));

        setResizable(false);


        jPanel1.setBackground(new java.awt.Color(51, 102, 255));

        jPanel1.setForeground(new java.awt.Color(0, 51, 204));


        txtpeso.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N

        txtpeso.setToolTipText("KG");

        txtpeso.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0,
0)));

        txtpeso.addActionListener(new java.awt.event.ActionListener() {

            public void actionPerformed(java.awt.event.ActionEvent evt) {

                txtpesoActionPerformed(evt);
```

```java
        }

    });



    txtaltura.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N

    txtaltura.setToolTipText("M");

    txtaltura.setAlignmentX(0.7F);

    txtaltura.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0,
0)));

    txtaltura.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            txtalturaActionPerformed(evt);

        }

    });



    jLabel1.setFont(new java.awt.Font("Arial", 0, 18)); // NOI18N

    jLabel1.setForeground(new java.awt.Color(255, 255, 255));

    jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

    jLabel1.setText("Calculadora de IMC");



    jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/icon/balanca.png")));
// NOI18N



    jLabel3.setFont(new java.awt.Font("Arial", 0, 14)); // NOI18N

    jLabel3.setForeground(new java.awt.Color(255, 255, 255));

    jLabel3.setText("Peso:");



    jLabel4.setBackground(new java.awt.Color(255, 255, 255));

    jLabel4.setFont(new java.awt.Font("Arial", 0, 14)); // NOI18N

    jLabel4.setForeground(new java.awt.Color(255, 255, 255));

    jLabel4.setText("Altura:");



    resppainel.setBackground(new java.awt.Color(204, 204, 204));
```

```java
info.setBackground(new java.awt.Color(255, 255, 255));

info.setFont(new java.awt.Font("Arial", 0, 14)); // NOI18N

info.setForeground(new java.awt.Color(255, 255, 255));

info.setText("Esperando Informações....");


text1.setFont(new java.awt.Font("Arial", 0, 14)); // NOI18N

text1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);


respimc.setFont(new java.awt.Font("Arial", 1, 18)); // NOI18N

respimc.setForeground(new java.awt.Color(255, 255, 255));

respimc.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);


situation.setFont(new java.awt.Font("Arial", 1, 14)); // NOI18N

situation.setForeground(new java.awt.Color(255, 255, 255));

situation.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);


javax.swing.GroupLayout resppainelLayout = new javax.swing.GroupLayout(resppainel);

resppainel.setLayout(resppainelLayout);

resppainelLayout.setHorizontalGroup(

  resppainelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

  .addGroup(resppainelLayout.createSequentialGroup()

    .addGap(120, 120, 120)

    .addComponent(text1, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGap(0, 0, Short.MAX_VALUE))

  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
resppainelLayout.createSequentialGroup()

    .addContainerGap(58, Short.MAX_VALUE)


.addGroup(resppainelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```java
                .addComponent(info)

.addGroup(resppainelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADIN
G)

                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
resppainelLayout.createSequentialGroup()

                    .addComponent(respimc, javax.swing.GroupLayout.PREFERRED_SIZE, 54,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addGap(111, 111, 111))

                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
resppainelLayout.createSequentialGroup()

                    .addComponent(situation, javax.swing.GroupLayout.PREFERRED_SIZE, 166,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addGap(53, 53, 53)))))
    );

    resppainelLayout.setVerticalGroup(

        resppainelLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(resppainelLayout.createSequentialGroup()

            .addGap(10, 10, 10)

            .addComponent(text1, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

            .addComponent(respimc, javax.swing.GroupLayout.DEFAULT_SIZE, 26,
Short.MAX_VALUE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

            .addComponent(situation, javax.swing.GroupLayout.PREFERRED_SIZE, 19,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(4, 4, 4)

            .addComponent(info)

            .addContainerGap())
    );


    btncalc.setBackground(new java.awt.Color(0, 153, 255));

    btncalc.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N
```

```java
    btncalc.setText("Calcular");

    btncalc.setToolTipText("clique para calcular");

    btncalc.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            btncalcActionPerformed(evt);

        }

    });


    btcnclean.setBackground(new java.awt.Color(0, 153, 255));

    btcnclean.setFont(new java.awt.Font("Arial", 0, 12)); // NOI18N

    btcnclean.setText("Limpar");

    btcnclean.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            btcncleanActionPerformed(evt);

        }

    });


    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

    jPanel1.setLayout(jPanel1Layout);

    jPanel1Layout.setHorizontalGroup(

        jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                .addGroup(jPanel1Layout.createSequentialGroup()

                    .addGap(54, 54, 54)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

                        .addComponent(jLabel3)
```

```java
                    .addComponent(jLabel4))
                    .addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                        .addComponent(txtaltura, javax.swing.GroupLayout.PREFERRED_SIZE, 77,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addComponent(txtpeso, javax.swing.GroupLayout.PREFERRED_SIZE, 77,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(20, 20, 20)
                        .addComponent(jLabel2)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addComponent(jLabel1)))
                    .addGap(0, 0, Short.MAX_VALUE))
                .addGroup(jPanel1Layout.createSequentialGroup()
                    .addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(resppainel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
                            .addComponent(btncalc)
                            .addGap(27, 27, 27)
                            .addComponent(btcnclean, javax.swing.GroupLayout.PREFERRED_SIZE, 79,
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGap(42, 42, 42)))))
                .addContainerGap())
        );
        jPanel1Layout.setVerticalGroup(
            jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()
```

```java
                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addContainerGap()
                        .addComponent(jLabel2))
                    .addGroup(jPanel1Layout.createSequentialGroup()
                        .addGap(28, 28, 28)
                        .addComponent(jLabel1)))
                .addGap(33, 33, 33)

                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(txtpeso, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel3))
                .addGap(37, 37, 37)

                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(txtaltura, javax.swing.GroupLayout.PREFERRED_SIZE, 24,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel4))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 57,
Short.MAX_VALUE)

                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                    .addComponent(btncalc)
                    .addComponent(btcnclean))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(resppainel, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(7, 7, 7))
        );

        javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
        getContentPane().setLayout(layout);
```

```java
        layout.setHorizontalGroup(

            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

        );

        layout.setVerticalGroup(

            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        );


        pack();
    }// </editor-fold>


    private void txtpesoActionPerformed(java.awt.event.ActionEvent evt) {


    }


    private void txtalturaActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
    }


    private void btncalcActionPerformed(java.awt.event.ActionEvent evt) {
      txtpes = Float.parseFloat(txtpeso.getText());

      txtalt = Float.parseFloat(txtaltura.getText());

      imc = txtpes / (txtalt * txtalt);

      txtn = String.valueOf(imc);


      if(imc < 18.5){

          text1.setText("IMC");

        respimc.setText(txtn);
```

```java
            situation.setText("Abaixo do peso");

            situation.setForeground(Color.red);

            info.setText("");
        }else if((imc>=18.5)&&(imc<=24.9)){

            text1.setText("IMC");

            respimc.setText(txtn);

            situation.setText("Peso normal");

            situation.setForeground(Color.green);

            info.setText("");
        }else if((imc>=25)&&(imc<=29.9)){

            text1.setText("IMC");

            respimc.setText(txtn);

            situation.setText("Sobrepeso");

            situation.setForeground(Color.yellow);

            info.setText("");
        }else if((imc>=30)&&(imc<=34.9)){

            text1.setText("IMC");

            respimc.setText(txtn);

            situation.setText("Obesidade grau 1");

            situation.setForeground(Color.yellow);

            info.setText("");
        }else if((imc>=35)&&(imc<=39.9)){

            text1.setText("IMC");

            respimc.setText(txtn);

            situation.setText("Obesidade grau 2");

            situation.setForeground(Color.orange);

            info.setText("");
        }else if(imc>40){

            text1.setText("IMC");

            respimc.setText(txtn);

            situation.setText("Obesidade grau 3");
```

```java
        situation.setForeground(Color.red);

        info.setText("");

    }

    }


    private void btcncleanActionPerformed(java.awt.event.ActionEvent evt) {

        text1.setText("");

        txtpeso.setText("");

        txtaltura.setText("");

        respimc.setText("");

        situation.setText("");

        info.setText("Esperando Informações....");

        txtpes = 0;

        txtalt = 0;

        imc = 0;

    }


    /**
     * @param args the command line arguments
     */
    public static void main(String args[]) {

        /* Set the Nimbus look and feel */

        //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

        /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

         * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

         */

        try {

            for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {

                if ("Nimbus".equals(info.getName())) {

                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
```

```java
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(TelaPrincipal.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(TelaPrincipal.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(TelaPrincipal.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(TelaPrincipal.class.getName()).log(java.util.logging.Level.SEV
ERE, null, ex);
    }
    //</editor-fold>


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


      }
    });
  }


  // Variables declaration - do not modify
  private javax.swing.JButton btcnclean;
  private javax.swing.JButton btncalc;
```

```java
    private javax.swing.JLabel info;

    private javax.swing.JLabel jLabel1;

    private javax.swing.JLabel jLabel2;

    private javax.swing.JLabel jLabel3;

    private javax.swing.JLabel jLabel4;

    private javax.swing.JPanel jPanel1;

    private javax.swing.JLabel respimc;

    private javax.swing.JPanel resppainel;

    private javax.swing.JLabel situation;

    private javax.swing.JLabel text1;

    private javax.swing.JTextField txtaltura;

    private javax.swing.JTextField txtpeso;
    // End of variables declaration
}
```