Appendix

```
/*
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package com.raven.main;
import java.awt.Color;
import java.awt.GradientPaint;
import java.awt.Graphics;
import java.awt.Graphics2D;
import java.awt.RenderingHints;
import javax.swing.JOptionPane;
* @author xymbol
public class login extends javax.swing.JFrame {
  /**
   * Creates new form login
  */
  public login() {
    initComponents();
  protected void paintChildren(Graphics grphcs) {
    Graphics2D g2 = (Graphics2D) grphcs;
    g2.setRenderingHint(RenderingHints.KEY ANTIALIASING,
RenderingHints.VALUE ANTIALIAS ON);
    GradientPaint g = new GradientPaint(0, 0, Color.decode("#1CB5E0"), 0, getHeight(),
Color.decode("#000046"));
    g2.setPaint(g);
    g2.fillRoundRect(0, 0, getWidth(), getHeight(), 15, 15);
    g2.fillRect(getWidth() - 20, 0, getWidth(), getHeight());
  }
  /**
  * 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">
  private void initComponents() {
    curvesPanel1 = new com.coals.swing.CurvesPanel();
    jLabel1 = new javax.swing.JLabel();
    myusr = new javax.swing.JTextField();
    ¡Label2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    login = new javax.swing.JButton();
    exit = new javax.swing.JButton();
    mypass = new javax.swing.JPasswordField();
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT ON CLOSE);
    setUndecorated(true);
    setResizable(false);
    curvesPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
    iLabel1.setFont(new java.awt.Font("Lucida Grande", 1, 36)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
    ¡Label1.setText("Sign In");
    curvesPanel1.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(114, 62, -1,
55));
    myusr.setFont(new java.awt.Font("Lucida Grande", 0, 18)); // NOI18N
    myusr.setToolTipText("");
    myusr.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));
    myusr.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        myusrActionPerformed(evt);
      }
    });
    curvesPanel1.add(myusr, new org.netbeans.lib.awtextra.AbsoluteConstraints(91, 211, 168,
40));
    jLabel2.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
    jLabel2.setForeground(new java.awt.Color(255, 255, 255));
    ¡Label2.setText("Password");
    curvesPanel1.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(121, 269,
132, 26));
    jLabel3.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
    jLabel3.setForeground(new java.awt.Color(255, 255, 255));
```

```
¡Label3.setText("Username");
    curvesPanel1.add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(114, 167,
132, 26));
    login.setText("Login");
    login.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        loginActionPerformed(evt);
      }
    });
    curvesPanel1.add(login, new org.netbeans.lib.awtextra.AbsoluteConstraints(136, 397, -1,
39));
    exit.setText("X");
    exit.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        exitActionPerformed(evt);
      }
    });
    curvesPanel1.add(exit, new org.netbeans.lib.awtextra.AbsoluteConstraints(302, 14, 40, -
1));
    mypass.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        mypassActionPerformed(evt);
      }
    });
    curvesPanel1.add(mypass, new org.netbeans.lib.awtextra.AbsoluteConstraints(90, 310,
170, 50));
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addComponent(curvesPanel1, javax.swing.GroupLayout.DEFAULT SIZE, 352,
Short.MAX VALUE)
    );
    layout.setVerticalGroup(
      layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
      .addComponent(curvesPanel1, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT SIZE, 480, Short.MAX VALUE)
    );
    pack();
```

```
setLocationRelativeTo(null);
  }// </editor-fold>
  private void myusrActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
  }
  private void loginActionPerformed(java.awt.event.ActionEvent evt) {
    if(myusr.getText().equals("")){
      JOptionPane.showMessageDialog(null, "Insert Username");
      myusr.requestFocus();
    }
    else if(mypass.getText().equals("")){
      JOptionPane.showMessageDialog(null, "Insert Password");
      myusr.requestFocus();
    }
    else if(myusr.getText().contains("admin") && mypass.getText().contains("123")){
      new Main().show();
      this.dispose();
    }else {JOptionPane.showMessageDialog(null, "Username and Password Incorrect!");}
  }
  private void exitActionPerformed(java.awt.event.ActionEvent evt) {
   this.dispose();
   System.exit(0);
  }
  private void mypassActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
  }
   * @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());
           break;
         }
      }
    } catch (ClassNotFoundException ex) {
java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(login.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
    //</editor-fold>
    //</editor-fold>
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
      public void run() {
         new login().setVisible(true);
      }
    });
  }
  // Variables declaration - do not modify
  private com.coals.swing.CurvesPanel curvesPanel1;
  private javax.swing.JButton exit;
  private javax.swing.JLabel jLabel1;
  private javax.swing.JLabel jLabel2;
  private javax.swing.JLabel jLabel3;
  private javax.swing.JButton login;
  private javax.swing.JPasswordField mypass;
  private javax.swing.JTextField myusr;
  // End of variables declaration
}
```

```
* 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.
package com.raven.main;
import com.coals.event.EventMenuSelected;
import com.coals.form.Form_1;
import com.coals.form.Form 2;
import com.coals.form.Form 3;
import java.awt.Color;
import javax.swing.JComponent;
import javax.swing.JPanel;
* @author XymboL
public class Main extends javax.swing.JFrame {
  /**
  * Creates new form Main
  private Form 1 form1;
  private Form 2 form2;
  private Form 3 form3;
  int buttonz;
  public Main(int but) {
    this.buttonz = but;
}
  public void updateMainPanel(JPanel newPanel) {
    mainPanel.removeAll();
```

```
mainPanel.add(newPanel);
  mainPanel.revalidate();
  mainPanel.repaint();
}
public Main() {
  initComponents();
  setBackground(new Color(0, 0, 0, 0));
  form1 = new Form 1();
  form2 = new Form 2();
  form3 = new Form 3();
  menu.initMoving(Main.this);
  menu.addEventMenuSelected(new EventMenuSelected() {
    @Override
    public void selected(int index) {
      if (index == 0) {
        setForm(form1);
      } else if (index == 1) {
        setForm(form2);
      else if (index == 2) {
        setForm(form3);
      }}
  });
  // set when system open start with home form
  setForm(new Form 1());
}
public void setForm(JComponent com) {
  mainPanel.removeAll();
  mainPanel.add(com);
  mainPanel.repaint();
  mainPanel.revalidate();
```

```
}
```

```
/**
  * 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">
  private void initComponents() {
    panelBorder1 = new com.coals.swing.PanelBorder();
    menu = new com.coals.component.Menu();
    header2 = new com.coals.component.Header();
    mainPanel = new javax.swing.JPanel();
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT ON CLOSE);
    setUndecorated(true);
    panelBorder1.setBackground(new java.awt.Color(242, 242, 242));
    header2.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
    mainPanel.setOpaque(false);
    mainPanel.setLayout(new java.awt.BorderLayout());
    javax.swing.GroupLayout panelBorder1Layout = new
javax.swing.GroupLayout(panelBorder1);
    panelBorder1.setLayout(panelBorder1Layout);
    panelBorder1Layout.setHorizontalGroup(
      panelBorder1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(panelBorder1Layout.createSequentialGroup()
        .addComponent(menu, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
.addGroup(panelBorder1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
          .addComponent(header2, javax.swing.GroupLayout.DEFAULT SIZE, 965,
Short.MAX VALUE)
```

```
.addGroup(panelBorder1Layout.createSequentialGroup()
            .addGap(6, 6, 6)
            .addComponent(mainPanel, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
            .addContainerGap())))
    );
    panelBorder1Layout.setVerticalGroup(
      panelBorder1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addComponent(menu, javax.swing.GroupLayout.DEFAULT SIZE, 657,
Short.MAX VALUE)
      .addGroup(panelBorder1Layout.createSequentialGroup()
        .addComponent(header2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(mainPanel, javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
        .addContainerGap())
    );
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addComponent(panelBorder1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addComponent(panelBorder1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
    );
    pack();
    setLocationRelativeTo(null);
 }// </editor-fold>
  * @param args the command line arguments
  public static void main(String args[]) {
    new Main();
```

```
/* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    try {
      for (javax.swing.UIManager.LookAndFeelInfo info:
javax.swing.UIManager.getInstalledLookAndFeels()) {
        if ("Nimbus".equals(info.getName())) {
          javax.swing.UIManager.setLookAndFeel(info.getClassName());
        }
    } catch (ClassNotFoundException ex) {
java.util.logging.Logger.getLogger(Main.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(Main.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(Main.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(Main.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    }
    //</editor-fold>
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
      public void run() {
        new login().setVisible(true);
      }
    });
  // Variables declaration - do not modify
  private com.coals.component.Header header2;
  private javax.swing.JPanel mainPanel;
  private com.coals.component.Menu menu;
  private com.coals.swing.PanelBorder panelBorder1;
  // End of variables declaration
```

```
* 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.
package com.coals.form;
import com.coals.event.EventMenuSelected;
import com.coals.model.Model Card;
import javax.swing.lmagelcon;
* @author Xymbol
public class Form 1 extends javax.swing.JPanel {
    private EventMenuSelected event;
  public void addEventMenuSelected(EventMenuSelected event) {
    this.event = event;
  }
int but;
  * Creates new form Form 1
  */
  public Form 1() {
    initComponents();
    card1.setData(new Model Card(new
ImageIcon(getClass().getResource("/com/raven/icon/sayatan/1.png")), "dip parallel to slope",
"Dip > Slope"));
    card2.setData(new Model Card(new
ImageIcon(getClass().getResource("/com/raven/icon/sayatan/2.png")), "dip parallel to slope",
"Slope > dip"));
    card3.setData(new Model Card(new
ImageIcon(getClass().getResource("/com/raven/icon/sayatan/3.png")), "dip opposite to slope",
"Dip > Slope"));
    card4.setData(new Model Card(new
ImageIcon(getClass().getResource("/com/raven/icon/sayatan/4.png")), "dip opposite to slope",
"Slope > dip"));
```

```
card5.setData(new Model Card(new
ImageIcon(getClass().getResource("/com/raven/icon/sayatan/5.png")), "horizontal layer", "no
condition"));
    card6.setData(new Model Card(new
ImageIcon(getClass().getResource("/com/raven/icon/sayatan/6.png")), "vertical layer", "no
condition"));
 // add action listener to the button
  }
  * 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">
  private void initComponents() {
    jPanel1 = new javax.swing.JPanel();
    button1 = new com.coals.swing.Button();
    button2 = new com.coals.swing.Button();
    card1 = new com.coals.component.Card();
    card2 = new com.coals.component.Card();
    jPanel5 = new javax.swing.JPanel();
    button3 = new com.coals.swing.Button();
    button4 = new com.coals.swing.Button();
    card3 = new com.coals.component.Card();
    card4 = new com.coals.component.Card();
    ¡Panel2 = new javax.swing.JPanel();
    button6 = new com.coals.swing.Button();
    button5 = new com.coals.swing.Button();
    card5 = new com.coals.component.Card();
    card6 = new com.coals.component.Card();
    setBackground(new java.awt.Color(242, 242, 242));
    setPreferredSize(new java.awt.Dimension(915, 592));
    setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
```

```
¡Panel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
button1.setText("Calculate");
button1.setToolTipText("");
button1.addMouseListener(new java.awt.event.MouseAdapter() {
  public void mouseClicked(java.awt.event.MouseEvent evt) {
    button1MouseClicked(evt);
  }
});
¡Panel1.add(button1, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 70, -1, -1));
button2.setText("Calculate");
button2.addMouseListener(new java.awt.event.MouseAdapter() {
  public void mouseClicked(java.awt.event.MouseEvent evt) {
    button2MouseClicked(evt);
  }
});
¡Panel1.add(button2, new org.netbeans.lib.awtextra.AbsoluteConstraints(580, 70, -1, -1));
card1.setColor1(new java.awt.Color(0, 102, 102));
jPanel1.add(card1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, -1, -1));
card2.setColor1(new java.awt.Color(0, 102, 0));
¡Panel1.add(card2, new org.netbeans.lib.awtextra.AbsoluteConstraints(367, 0, -1, -1));
add(jPanel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 0, -1, -1));
jPanel5.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
button3.setText("Calculate");
button3.addMouseListener(new java.awt.event.MouseAdapter() {
  public void mouseClicked(java.awt.event.MouseEvent evt) {
    button3MouseClicked(evt);
  }
});
jPanel5.add(button3, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 70, -1, -1));
button4.setText("Calculate");
button4.addMouseListener(new java.awt.event.MouseAdapter() {
  public void mouseClicked(java.awt.event.MouseEvent evt) {
    button4MouseClicked(evt);
  }
});
¡Panel5.add(button4, new org.netbeans.lib.awtextra.AbsoluteConstraints(580, 70, -1, -1));
```

```
card3.setColor1(new java.awt.Color(102, 51, 0));
  ¡Panel5.add(card3, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, -1, -1));
  card4.setColor1(new java.awt.Color(102, 0, 51));
  jPanel5.add(card4, new org.netbeans.lib.awtextra.AbsoluteConstraints(367, 0, -1, -1));
  add(jPanel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 200, -1, -1));
  iPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
  button6.setText("Calculate");
  button6.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
      button6MouseClicked(evt);
    }
  });
  jPanel2.add(button6, new org.netbeans.lib.awtextra.AbsoluteConstraints(580, 70, -1, -1));
  button5.setText("Calculate");
  button5.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
      button5MouseClicked(evt);
    }
  });
  ¡Panel2.add(button5, new org.netbeans.lib.awtextra.AbsoluteConstraints(210, 70, -1, -1));
  card5.setColor1(new java.awt.Color(51, 0, 102));
  jPanel2.add(card5, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, -1, -1));
  card6.setColor1(new java.awt.Color(0, 0, 102));
  ¡Panel2.add(card6, new org.netbeans.lib.awtextra.AbsoluteConstraints(367, 0, -1, -1));
  add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(120, 400, -1, -1));
}// </editor-fold>
private void button1MouseClicked(java.awt.event.MouseEvent evt) {
  new Cal1().setVisible(true);
}
private void button2MouseClicked(java.awt.event.MouseEvent evt) {
  new Cal2().setVisible(true);
```

```
}
private void button3MouseClicked(java.awt.event.MouseEvent evt) {
  new Cal3().setVisible(true);
}
private void button4MouseClicked(java.awt.event.MouseEvent evt) {
  new Cal4().setVisible(true);
}
private void button5MouseClicked(java.awt.event.MouseEvent evt) {
 new Cal5().setVisible(true);
}
private void button6MouseClicked(java.awt.event.MouseEvent evt) {
 new Cal6().setVisible(true);
}
// Variables declaration - do not modify
private com.coals.swing.Button button1;
private com.coals.swing.Button button2;
private com.coals.swing.Button button3;
private com.coals.swing.Button button4;
private com.coals.swing.Button button5;
private com.coals.swing.Button button6;
private com.coals.component.Card card1;
private com.coals.component.Card card2;
private com.coals.component.Card card3;
private com.coals.component.Card card4;
private com.coals.component.Card card5;
private com.coals.component.Card card6;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JPanel jPanel5;
// End of variables declaration
```

```
* 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.
package com.coals.form;
import com.coals.event.PrintDoc;
import static com.coals.form.Form_2.table1data;
import java.awt.Color;
import java.awt.Desktop;
import java.io.File;
import java.io.IOException;
import java.text.DecimalFormat;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
import javax.swing.JOptionPane;
* @author Xymbol
public class Form 2 extends javax.swing.JPanel {
  public static double[][][] tabledata = new double [0][0][0];
  public static double[][][] data;
  public static double table1data[][];
  public static boolean status = false;
  public double[][] newArray;
  public double[][] newArray2 = new double[3][4];
  public double[][] arrResult;
  public static double coal1;
  public static double coal2;
  public static double coal3;
  public List<List<Double>> result = new ArrayList<>();
public static double sumproduct(double[] arr1, List<List<Double>> arr2, int x) {
  if (arr1.length == 0 || arr2.isEmpty() || arr2.get(0).isEmpty()) {
    return 0;
  }
  double value = arr2.get(0).get(x);
  if (Double.isNaN(value)) {
    value = 0;
```

```
}
  return arr1[0] * value + sumproduct(Arrays.copyOfRange(arr1, 1, arr1.length)
      ,arr2.subList(1, arr2.size()), x);
}
DecimalFormat df = new DecimalFormat("#.##");
double v1;
double v2 = 38.8;
double v3 = 0.0;
double vadd = 1.2;
   * Creates new form Form_1
   */
  public Form 2() {
    v1 = 100-v2-v3-vadd;
    initComponents();
  Coal1.setText(String.valueOf(df.format(v1)));
  Coal2.setText(String.valueOf(df.format(v2)));
  Coal3.setText(String.valueOf(df.format(v3)));
 }
   * 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">
  private void initComponents() {
```

```
¡Panel2 = new javax.swing.JPanel();
Coal1 = new javax.swing.JTextField();
Coal2 = new javax.swing.JTextField();
Coal3 = new javax.swing.JTextField();
coal3down = new javax.swing.JLabel();
coal3up = new javax.swing.JLabel();
coal2up = new javax.swing.JLabel();
coal2down = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
¡Label6 = new javax.swing.JLabel();
jLabel13 = new javax.swing.JLabel();
opendoc = new javax.swing.JLabel();
execbutton = new com.coals.swing.Button();
jLabel9 = new javax.swing.JLabel();
setBackground(new java.awt.Color(242, 242, 242));
setPreferredSize(new java.awt.Dimension(915, 592));
setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
Coal1.setHorizontalAlignment(javax.swing.JTextField.CENTER);
Coal1.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    Coal1ActionPerformed(evt);
  }
});
jPanel2.add(Coal1, new org.netbeans.lib.awtextra.AbsoluteConstraints(80, 70, 111, 50));
Coal2.setHorizontalAlignment(javax.swing.JTextField.CENTER);
Coal2.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    Coal2ActionPerformed(evt);
  }
});
¡Panel2.add(Coal2, new org.netbeans.lib.awtextra.AbsoluteConstraints(380, 70, 111, 50));
Coal3.setHorizontalAlignment(javax.swing.JTextField.CENTER);
Coal3.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    Coal3ActionPerformed(evt);
  }
});
```

```
¡Panel2.add(Coal3, new org.netbeans.lib.awtextra.AbsoluteConstraints(720, 70, 111, 50));
    coal3down.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/com/raven/icon/buttondown.png"))); //
NOI18N
    coal3down.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        coal3downMouseClicked(evt);
      }
    });
    ¡Panel2.add(coal3down, new org.netbeans.lib.awtextra.AbsoluteConstraints(670, 100, 35,
35));
    coal3up.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/com/raven/icon/buttonup.png"))); // NOI18N
    coal3up.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        coal3upMouseClicked(evt);
      }
    });
    jPanel2.add(coal3up, new org.netbeans.lib.awtextra.AbsoluteConstraints(670, 60, 35, 35));
    coal2up.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/com/raven/icon/buttonup.png"))); // NOI18N
    coal2up.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        coal2upMouseClicked(evt);
      }
    });
    jPanel2.add(coal2up, new org.netbeans.lib.awtextra.AbsoluteConstraints(330, 60, 35, 35));
    coal2down.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/com/raven/icon/buttondown.png"))); //
NOI18N
    coal2down.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        coal2downMouseClicked(evt);
      }
    });
    jPanel2.add(coal2down, new org.netbeans.lib.awtextra.AbsoluteConstraints(330, 100, 35,
35));
    jLabel5.setFont(new java.awt.Font("Lucida Grande", 0, 18)); // NOI18N
    jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
```

```
¡Label5.setText("Coal 1");
    ¡Panel2.add(¡Label5, new org.netbeans.lib.awtextra.AbsoluteConstraints(90, 20, 90, 40));
    jLabel6.setFont(new java.awt.Font("Lucida Grande", 0, 18)); // NOI18N
    jLabel6.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    jLabel6.setText("Coal 3");
    ¡Panel2.add(¡Label6, new org.netbeans.lib.awtextra.AbsoluteConstraints(720, 20, 100, 40));
    jLabel13.setFont(new java.awt.Font("Lucida Grande", 0, 18)); // NOI18N
    jLabel13.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    ¡Label13.setText("Coal 2");
    jPanel2.add(jLabel13, new org.netbeans.lib.awtextra.AbsoluteConstraints(380, 20, 100,
40));
    add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 152, 915, 159));
    opendoc.setFont(new java.awt.Font("Lucida Grande", 0, 14)); // NOI18N
    opendoc.setForeground(new java.awt.Color(204, 204, 255));
    opendoc.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    opendoc.setText("Fill This Document");
    opendoc.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        opendocMouseClicked(evt);
      public void mouseEntered(java.awt.event.MouseEvent evt) {
        opendocMouseEntered(evt);
      public void mouseExited(java.awt.event.MouseEvent evt) {
        opendocMouseExited(evt);
      }
    });
    add(opendoc, new org.netbeans.lib.awtextra.AbsoluteConstraints(371, 488, -1, -1));
    execbutton.setText("Execute");
    execbutton.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        execbuttonMouseClicked(evt);
      }
    });
    add(execbutton, new org.netbeans.lib.awtextra.AbsoluteConstraints(382, 424, 104, 52));
    jLabel9.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
    jLabel9.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    ¡Label9.setText("Ratio");
```

```
add(jLabel9, new org.netbeans.lib.awtextra.AbsoluteConstraints(390, 60, 100, 40));
}// </editor-fold>
private void Coal2ActionPerformed(java.awt.event.ActionEvent evt) {
 // TODO add your handling code here:
}
private void Coal3ActionPerformed(java.awt.event.ActionEvent evt) {
 // TODO add your handling code here:
}
private void Coal1ActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
}
private void opendocMouseClicked(java.awt.event.MouseEvent evt) {
File docxFile = new File("document.docx");
try {
 Desktop.getDesktop().open(docxFile);
} catch (IOException e) {
 JOptionPane.showMessageDialog(null, ("Error opening file: " + e.getMessage()));
}
}
private void coal2upMouseClicked(java.awt.event.MouseEvent evt) {
 v2 += 0.10;
 v1 = 100.0 - v2 - v3-vadd;
 Coal1.setText(String.valueOf(df.format(v1)));
 Coal2.setText(String.valueOf(df.format(v2)));
}
private void coal2downMouseClicked(java.awt.event.MouseEvent evt) {
 v2 = 0.10;
 v1 = 100.0 - v2 - v3-vadd;
 Coal1.setText(String.valueOf(df.format(v1)));
 Coal2.setText(String.valueOf(df.format(v2)));
}
private void coal3upMouseClicked(java.awt.event.MouseEvent evt) {
```

```
v3 += 0.10;
   v1 = 100.0 - v2 - v3-vadd;
   Coal1.setText(String.valueOf(df.format(v1)));
   Coal3.setText(String.valueOf(df.format(v3)));
  }
  private void coal3downMouseClicked(java.awt.event.MouseEvent evt) {
   v3 = 0.10;
   v1 = 100.0 - v2 - v3-vadd;
   Coal1.setText(String.valueOf(df.format(v1)));
   Coal3.setText(String.valueOf(df.format(v3)));
  }
  private void opendocMouseEntered(java.awt.event.MouseEvent evt) {
   opendoc.setForeground(new Color(0,204,255));
  }
  private void opendocMouseExited(java.awt.event.MouseEvent evt) {
    opendoc.setForeground(new Color(0,102,204));
  }
  private void execbuttonMouseClicked(java.awt.event.MouseEvent evt) {
data = com.coals.event.ReadDoc.readTablesFromWordDocument("document.docx");
tabledata = data;
table1data = data[0];
int numRows = table1data.length;
int numCols = table1data[0].length;
 newArray = new double[numRows-1][];
for (int i = 1; i < table1data.length; i++) {
  newArray[i - 1] = table1data[i];
}
for(int i=0; i<=2; i++){
   newArray2[i][0]=newArray[i][2]*100/(100-newArray[i][1]);
 }
  for(int i=0;i<=2;i++){
```

```
newArray2[i][1]=100-newArray[i][1]-newArray[i][2]-newArray[i][3];
 }
  for(int i=0;i<=2;i++){
   newArray2[i][2]=newArray[i][4]*(100-newArray[i][0])/(100-newArray[i][1]);
 }
    for(int i=0;i<=2;i++){
   newArray2[i][3]=newArray[i][5]*(100-newArray[i][0])/(100-newArray[i][1]);
 int rows = newArray.length;
 int columns = newArray[0].length + newArray[0].length;
 //Move to Arraylist to easier the calc
for (int i = 0; i < newArray.length; i++) {
  List<Double> row = new ArrayList<>();
  for (int j = 0; j < newArray[0].length; j++) {
    row.add(newArray[i][j]);
  }
  for (int j = 0; j < newArray2[0].length; j++) {
    row.add(newArray2[i][j]);
  }
  result.add(row);
double []ratio = {v1,v2,v3};
double []ratios = {v1,v2,v3,vadd};
double com1 = sumproduct(ratios, result, 0)/100;
double com2 = sumproduct(ratios, result, 1)/100;
double com3 = sumproduct(ratios, result, 2)/100;
double com5 = sumproduct(ratios, result, 4)/100;
double com6 = sumproduct(ratios, result, 5)/100;
double com7 = com3*100/(100-com2);
double com8 = sumproduct(ratios, result, 7)/100;
double com9 = com5*(100-com1)/(100-com2);
double com10 = com6*(100-com1)/(100-com2);
double [] composite={100, com1, com2, com3, 0.50,com5,com6,com7,com8,com9,com10};
PrintDoc example = new PrintDoc();
example.createWordDocument("Table 1",result, composite,ratio);
File docxFile = new File("result.docx");
  try {
   Desktop.getDesktop().open(docxFile);
  } catch (IOException e) {
   JOptionPane.showMessageDialog(null, ("Error opening file: " + e.getMessage()));
  }
```

```
}
```

}

```
// Variables declaration - do not modify
private javax.swing.JTextField Coal1;
private javax.swing.JTextField Coal2;
private javax.swing.JTextField Coal3;
private javax.swing.JLabel coal2down;
private javax.swing.JLabel coal2up;
private javax.swing.JLabel coal3down;
private javax.swing.JLabel coal3up;
private com.coals.swing.Button execbutton;
private javax.swing.JLabel jLabel13;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel9;
private javax.swing.JPanel jPanel2;
private javax.swing.JLabel opendoc;
// End of variables declaration
```

```
Cal 1-6
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this
* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package com.coals.form;
import com.raven.main.Main;
import com.coals.model.composite;
import com.coals.model.formula;
import com.coals.model.volumeformula;
import java.text.DecimalFormat;
/**
* @author xymbol
*/
public class Cal1 extends javax.swing.JFrame {
  /**
  * Creates new form Cal1
  */
  public Cal1() {
    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">
  private void initComponents() {
    ¡Panel3 = new javax.swing.JPanel();
    curvesPanel1 = new com.coals.swing.CurvesPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    ¡RadioButton1 = new javax.swing.JRadioButton();
    jPanel1 = new javax.swing.JPanel();
    jLabel6 = new javax.swing.JLabel();
```

```
widthf = new javax.swing.JTextField();
    lengthf = new javax.swing.JTextField();
    jLabel8 = new javax.swing.JLabel();
    ¡Panel2 = new javax.swing.JPanel();
    jLabel5 = new javax.swing.JLabel();
    wfill = new javax.swing.JTextField();
    ofill = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    dfill = new javax.swing.JTextField();
    butcalc = new com.coals.swing.Button();
    resultfill = new javax.swing.JTextField();
    ¡Label7 = new javax.swing.JLabel();
    jButton1 = new javax.swing.JButton();
    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT ON CLOSE);
    setUndecorated(true);
    getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
    ¡Panel3.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
    jLabel1.setFont(new java.awt.Font("PT Serif", 0, 18)); // NOI18N
    jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    jLabel1.setText("Length");
    jLabel2.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    ¡Label2.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/com/raven/icon/sayatann/Screenshot 2023-
02-02 at 07.52.07.png"))); // NOI18N
    ¡RadioButton1.setFont(new java.awt.Font("PT Serif", 0, 18)); // NOI18N
    ¡RadioButton1.setForeground(new java.awt.Color(255, 255, 255));
    jRadioButton1.setText("Have Length and Width?");
    jRadioButton1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        jRadioButton1ActionPerformed(evt);
      }
    });
    jPanel1.setBackground(new java.awt.Color(255, 255, 255));
    ¡Panel1.setBorder(javax.swing.BorderFactory.createTitledBorder("Insert Width and
Length"));
    jLabel6.setFont(new java.awt.Font("PT Serif", 0, 18)); // NOI18N
```

```
jLabel6.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    ¡Label6.setText("Width");
    widthf.setEditable(false);
    lengthf.setEditable(false);
    jLabel8.setFont(new java.awt.Font("PT Serif", 0, 18)); // NOI18N
    iLabel 8. set Horizontal Alignment (javax.swing. Swing Constants. CENTER);\\
    jLabel8.setText("Length");
    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    ¡Panel1.setLayout(¡Panel1Layout);
    ¡Panel1Layout.setHorizontalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
        .addGap(40, 40, 40)
        .addComponent(jLabel8)
        .addContainerGap(98, Short.MAX VALUE))
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
          .addGap(34, 34, 34)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED SIZE, 60,
javax.swing.GroupLayout.PREFERRED SIZE)
            .addComponent(widthf, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED SIZE)
            .addComponent(lengthf, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE))
          .addContainerGap(34, Short.MAX VALUE)))
    );
    iPanel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
¡Panel1Layout.createSequentialGroup()
        .addContainerGap(95, Short.MAX_VALUE)
        .addComponent(jLabel8)
        .addGap(57, 57, 57))
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel1Layout.createSequentialGroup()
          .addGap(28, 28, 28)
```

```
.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED SIZE, 20,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addGap(0, 0, 0)
          .addComponent(widthf, javax.swing.GroupLayout.PREFERRED SIZE, 30,
iavax.swing.GroupLayout.PREFERRED_SIZE)
          .addGap(40, 40, 40)
          .addComponent(lengthf, javax.swing.GroupLayout.PREFERRED SIZE, 30,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addContainerGap(28, Short.MAX_VALUE)))
    );
    jPanel2.setBackground(new java.awt.Color(255, 255, 255));
    ¡Panel2.setBorder(javax.swing.BorderFactory.createTitledBorder("Insert Parameter"));
    jLabel5.setFont(new java.awt.Font("PT Serif", 0, 18)); // NOI18N
    jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    iLabel5.setText("w");
    ¡Label4.setFont(new java.awt.Font("PT Serif", 0, 18)); // NOI18N
    jLabel4.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    jLabel4.setText("delta");
    jLabel3.setFont(new java.awt.Font("PT Serif", 0, 18)); // NOI18N
    jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    jLabel3.setText("omega");
    javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
    ¡Panel2.setLayout(¡Panel2Layout);
   jPanel2Layout.setHorizontalGroup(
      jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel2Layout.createSequentialGroup()
        .addContainerGap()
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED SIZE, 19,
javax.swing.GroupLayout.PREFERRED SIZE)
          .addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED SIZE))
        .addContainerGap(72, Short.MAX_VALUE))
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
          .addGap(9, 9, 9)
```

```
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(wfill, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED SIZE)
            .addComponent(ofill, javax.swing.GroupLayout.PREFERRED SIZE, 120,
javax.swing.GroupLayout.PREFERRED SIZE)
            .addComponent(dfill, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED SIZE)
            .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED SIZE))
          .addContainerGap(9, Short.MAX VALUE)))
    );
    iPanel2Layout.setVerticalGroup(
      jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel2Layout.createSequentialGroup()
        .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 20,
javax.swing.GroupLayout.PREFERRED SIZE)
        .addGap(48, 48, 48)
        .addComponent(jLabel3)
        .addGap(0, 114, Short.MAX VALUE))
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(jPanel2Layout.createSequentialGroup()
          .addGap(18, 18, 18)
.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
              .addComponent(wfill, javax.swing.GroupLayout.PREFERRED SIZE, 30,
javax.swing.GroupLayout.PREFERRED SIZE)
              .addGap(40, 40, 40)
              .addComponent(ofill, javax.swing.GroupLayout.PREFERRED SIZE, 30,
javax.swing.GroupLayout.PREFERRED SIZE)
              .addGap(40, 40, 40)
              .addComponent(dfill, javax.swing.GroupLayout.PREFERRED SIZE, 30,
javax.swing.GroupLayout.PREFERRED SIZE))
            .addGroup(jPanel2Layout.createSequentialGroup()
              .addGap(120, 120, 120)
              .addComponent(jLabel4)))
          .addContainerGap(18, Short.MAX_VALUE)))
    );
    butcalc.setText("Calculate");
    butcalc.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
```

```
butcalcMouseClicked(evt);
      }
    });
    resultfill.setEditable(false);
    resultfill.setFont(new java.awt.Font("Lucida Grande", 0, 14)); // NOI18N
    resultfill.setHorizontalAlignment(javax.swing.JTextField.CENTER);
    jLabel7.setFont(new java.awt.Font("Chalkduster", 0, 36)); // NOI18N
    jLabel7.setForeground(new java.awt.Color(255, 255, 255));
    ¡Label7.setText("dip parallel to slope");
    jButton1.setFont(new java.awt.Font("Lucida Grande", 0, 18)); // NOI18N
    ¡Button1.setText("X");
    ¡Button1.addMouseListener(new java.awt.event.MouseAdapter() {
      public void mouseClicked(java.awt.event.MouseEvent evt) {
        ¡Button1MouseClicked(evt);
      }
    });
    javax.swing.GroupLayout curvesPanel1Layout = new
javax.swing.GroupLayout(curvesPanel1);
    curvesPanel1.setLayout(curvesPanel1Layout);
    curvesPanel1Layout.setHorizontalGroup(
      curvesPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(curvesPanel1Layout.createSequentialGroup()
        .addGap(248, 248, 248)
        .addComponent(jLabel7)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 202,
Short.MAX VALUE)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED SIZE, 47,
javax.swing.GroupLayout.PREFERRED SIZE)
        .addGap(14, 14, 14))
.addGroup(curvesPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
        .addGroup(curvesPanel1Layout.createSequentialGroup()
          .addGap(0, 0, Short.MAX_VALUE)
          .addComponent(jLabel2)
          .addGap(22, 22, 22)
.addGroup(curvesPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
            .addGroup(curvesPanel1Layout.createSequentialGroup()
```

```
.addGap(60, 60, 60)
              .addComponent(jRadioButton1))
            .addGroup(curvesPanel1Layout.createSequentialGroup()
              .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE)
              .addGap(20, 20, 20)
.addGroup(curvesPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
                .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE)
                .addGroup(curvesPanel1Layout.createSequentialGroup()
                  .addGap(40, 40, 40)
                  .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED SIZE, 60,
javax.swing.GroupLayout.PREFERRED SIZE))))
            .addGroup(curvesPanel1Layout.createSequentialGroup()
              .addGap(130, 130, 130)
              .addComponent(butcalc, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE))
            .addGroup(curvesPanel1Layout.createSequentialGroup()
              .addGap(110, 110, 110)
              .addComponent(resultfill, javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED SIZE)))
          .addGap(0, 0, Short.MAX_VALUE)))
    );
    curvesPanel1Layout.setVerticalGroup(
      curvesPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(curvesPanel1Layout.createSequentialGroup()
.addGroup(curvesPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
          .addGroup(curvesPanel1Layout.createSequentialGroup()
            .addGap(40, 40, 40)
            .addComponent(jLabel7))
          .addGroup(curvesPanel1Layout.createSequentialGroup()
            .addGap(15, 15, 15)
            .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED SIZE, 41,
javax.swing.GroupLayout.PREFERRED SIZE)))
        .addContainerGap(523, Short.MAX_VALUE))
.addGroup(curvesPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
        .addGroup(curvesPanel1Layout.createSequentialGroup()
          .addGap(0, 0, Short.MAX VALUE)
```

```
.addGroup(curvesPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
            .addComponent(jLabel2)
            .addGroup(curvesPanel1Layout.createSequentialGroup()
              .addGap(10, 10, 10)
              .addComponent(jRadioButton1)
              .addGap(11, 11, 11)
.addGroup(curvesPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADI
NG)
                 .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE)
                 .addGroup(curvesPanel1Layout.createSequentialGroup()
                   .addGap(100, 100, 100)
                   .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED SIZE, 20,
javax.swing.GroupLayout.PREFERRED SIZE))
                 .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE))
              .addGap(30, 30, 30)
              .addComponent(butcalc, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE)
              .addGap(9, 9, 9)
              .addComponent(resultfill, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED SIZE)))
          .addGap(0, 0, Short.MAX VALUE)))
    );
    ¡Panel3.add(curvesPanel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 940,
610));
    getContentPane().add(jPanel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, -1,
610));
    pack();
    setLocationRelativeTo(null);
  }// </editor-fold>
  private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    lengthf.setEditable(true);
    widthf.setEditable(true);
  }
  private void butcalcMouseClicked(java.awt.event.MouseEvent evt) {
```

```
formula formula = new formula(Double.parseDouble(ofill.getText()),
                Double.parseDouble(dfill.getText()),
                Double.parseDouble(wfill.getText()));
DecimalFormat df = new DecimalFormat("#.##");
double rst = formula.calc1();
resultfill.setText(String.valueOf(df.format(rst)));
if (jRadioButton1.isSelected()) {
  volumeformula volumeFormula = new volumeformula(Double.parseDouble(ofill.getText()),
                             Double.parseDouble(dfill.getText()),
                             Double.parseDouble(wfill.getText()),
                             Double.parseDouble(lengthf.getText()),
                             Double.parseDouble(widthf.getText()));
  rst = volumeFormula.volume(rst);
  resultfill.setText(String.valueOf(df.format(rst)));
}
  }
  private void jButton1MouseClicked(java.awt.event.MouseEvent evt) {
    this.dispose();
  }
  * @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());
           break;
        }
    } catch (ClassNotFoundException ex) {
```

```
java.util.logging.Logger.getLogger(Cal1.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(Cal1.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(Cal1.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(Cal1.class.getName()).log(java.util.logging.Level.SEVERE, null,
ex);
    }
    //</editor-fold>
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
      public void run() {
         new Cal1().setVisible(true);
      }
    });
  }
  // Variables declaration - do not modify
  private com.coals.swing.Button butcalc;
  private com.coals.swing.CurvesPanel curvesPanel1;
  private javax.swing.JTextField dfill;
  private javax.swing.JButton jButton1;
  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.JLabel jLabel8;
  private javax.swing.JPanel jPanel1;
  private javax.swing.JPanel jPanel2;
  private javax.swing.JPanel jPanel3;
  private javax.swing.JRadioButton jRadioButton1;
  private javax.swing.JTextField lengthf;
```

```
private javax.swing.JTextField ofill;
private javax.swing.JTextField resultfill;
private javax.swing.JTextField wfill;
private javax.swing.JTextField widthf;
// End of variables declaration
}
```

```
* 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
package com.coals.event;
import java.io.File;
import java.io.FileOutputStream;
import java.text.DecimalFormat;
import java.util.ArrayList;
import java.util.List;
import org.apache.poi.xwpf.usermodel.XWPFDocument;
import org.apache.poi.xwpf.usermodel.XWPFParagraph;
import org.apache.poi.xwpf.usermodel.XWPFTable;
import org.apache.poi.xwpf.usermodel.XWPFTableRow;
import org.openxmlformats.schemas.wordprocessingml.x2006.main.CTPageSz;
import org.openxmlformats.schemas.wordprocessingml.x2006.main.STPageOrientation;
* @author xymbol
*/
public class PrintDoc {
  public void createWordDocument(String title, List<List<Double>> arr, double[] com, double[]
ratio) {
  // Create a new Word document
  XWPFDocument doc = new XWPFDocument();
  // Get the document's default page size
  DecimalFormat df = new DecimalFormat("#.##");
  CTPageSz pageSize = doc.getDocument().getBody().addNewSectPr().addNewPgSz();
  pageSize.setOrient(STPageOrientation.LANDSCAPE);
  XWPFParagraph paragraph = doc.createParagraph();
  // Create a new table in the document
  XWPFTable table = doc.createTable();
  // Add the data from the array to the table
  String[] data = {"Materials", "Ratio", "TM \n%AR", "IM\n%ADB", "ASH\n%ADB",
    "ASH\n%DB", "VM\n%ADB", "FC\n%ADB", "TS\n%ADB", "TS\n%AR", "CV\n%ADB",
"CV\nar"};
```

```
XWPFTableRow headerRow = table.createRow();
for (int i = 0; i < data.length; i++) {
  headerRow.createCell().setText(data[i]);
  headerRow.getCell(i).getParagraphs().get(0).createRun().setBold(true);}
for (int i = 0; i < ratio.length; i++) {
  ratio[i] = Double.valueOf(df.format(ratio[i]));}
String[] stringArray = new String[ratio.length];
for (int i = 0; i < ratio.length; i++) {
  stringArray[i] = String.valueOf(ratio[i]);
}
String[][] header = {
  {"Coal 1", ""},
  {"Coal 2", ""},
  {"Coal 3", ""},};
for (int i = 0; i < header.length; i++) {
  header[i][1] = stringArray[i];}
for (int i = 0; i < header.length; i++) {
  XWPFTableRow row = table.createRow();
  row.createCell().setText(String.valueOf(header[i][0]));
  row.createCell().setText(String.valueOf(header[i][1]));
  for (int j = 0; j < arr.get(i).size(); j++) {
     row.createCell().setText(df.format(arr.get(i).get(j)));
  }
XWPFTableRow row = table.createRow();
for (int i = -1; i < com.length; i++) {
  if(i == -1) {
     row.createCell().setText(("composite"));
  } else {
     row.createCell().setText(String.valueOf(df.format(com[i])));
  }
}
// Save the document
try {
  FileOutputStream out = new FileOutputStream(new File("result.docx"));
  doc.write(out);
  out.close();
  doc.close();
} catch (Exception e) {
  e.printStackTrace();
}
```

}

```
package com.coals.event;
import java.io.File;
import java.io.FileInputStream;
import java.io.IOException;
import org.apache.poi.xwpf.usermodel.XWPFTable;
import org.apache.poi.xwpf.usermodel.XWPFTableRow;
import org.apache.poi.xwpf.usermodel.XWPFDocument;
import java.util.LinkedList;
import javax.swing.JOptionPane;
public class ReadDoc {
  public static class Queue<T> {
    private LinkedList<T> queue;
    public Queue() {
      queue = new LinkedList<>();
    }
    public void enqueue(T item) {
      queue.addLast(item);
    }
    public T dequeue() {
      if (isEmpty()) {
        throw new RuntimeException("Queue is empty");
      return queue.removeFirst();
    }
    public T peek() {
      if (isEmpty()) {
        throw new RuntimeException("Queue is empty");
      return queue.getFirst();
    }
    public boolean isEmpty() {
      return queue.isEmpty();
    }
```

```
public int size() {
      return queue.size();
    }
  }
  private double[][][] data;
  public static double[][][] readTablesFromWordDocument(String fileName) {
    try {
      // Open the Word document
      File file = new File(fileName);
      double[][][] data;
      try (FileInputStream fis = new FileInputStream(file); XWPFDocument docx = new
XWPFDocument(fis)) {
        // Use a Queue to keep track of the tables to process
        Queue<XWPFTable> queue = new Queue<>();
        int tableCount = docx.getTables().size();
         data = new double[tableCount][][];
        // Enqueue each table in the document
        for (XWPFTable table : docx.getTables()) {
           queue.enqueue(table);
        }
        int tableIndex = 0;
        // Process tables in the order they were encountered in the document
        while (!queue.isEmpty()) {
           XWPFTable table = queue.dequeue();
           // Get the number of rows and columns in the table
           int rows = table.getRows().size();
           int cols = table.getRow(0).getTableCells().size();
           // Create a 2D array to store the table data
           data[tableIndex] = new double[rows][cols];
           // Loop through all rows in the table
           for (int i = 0; i < rows; i++) {
             XWPFTableRow row = table.getRow(i);
             String cellText = row.getCell(0).getText();
             if (!cellText.matches("-?\\d+(\\.\\d+)?")) {
               continue;
```

```
}
             // Loop through all cells in the row
             for (int j = 0; j < cols; j++) {
               cellText = row.getCell(j).getText();
                data[tableIndex][i][j] = Double.parseDouble(cellText);
             }
           }
           tableIndex++;
      }
      return data;
    } catch (IOException e) {
      JOptionPane.showMessageDialog(null, ("Error opening file: " + e.getMessage()));
      return null;
    }
  }
  public double[][][] getData() {
    return data;
  }
}
```

```
package com.coals.component;
import com.coals.model.Model_Card;
import java.awt.Color;
import java.awt.GradientPaint;
import java.awt.Graphics;
import java.awt.Graphics2D;
import java.awt.RenderingHints;
public class Card extends javax.swing.JPanel {
  public Color getColor1() {
    return color1;
  }
  public void setColor1(Color color1) {
    this.color1 = color1;
  public Color getColor2() {
    return color2;
  }
  public void setColor2(Color color2) {
    this.color2 = color2;
  }
  private Color color1;
  private Color color2;
  public Card() {
    initComponents();
    setOpaque(false);
    color1 = Color.BLACK;
    color2 = Color.WHITE;
  }
  public void setData(Model Card data) {
    lblcon.setIcon(data.getIcon());
    lbTitle.setText(data.getTitle());
    lbValues.setText(data.getValues());
  }
```

```
@SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">
  private void initComponents() {
    lblcon = new javax.swing.JLabel();
    lbTitle = new javax.swing.JLabel();
    lbValues = new javax.swing.JLabel();
    IbIcon.setIcon(new
javax.swing.lmagelcon(getClass().getResource("/com/raven/icon/sayatan/1.png"))); // NOI18N
    lbTitle.setFont(new java.awt.Font("sansserif", 1, 14)); // NOI18N
    lbTitle.setForeground(new java.awt.Color(255, 255, 255));
    lbTitle.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    lbTitle.setText("Title");
    lbTitle.setToolTipText("");
    IbValues.setFont(new java.awt.Font("sansserif", 1, 18)); // NOI18N
    lbValues.setForeground(new java.awt.Color(255, 255, 255));
    lbValues.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    lbValues.setText("Description");
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
    this.setLayout(layout);
    layout.setHorizontalGroup(
      layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
      .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(lblcon, javax.swing.GroupLayout.PREFERRED SIZE, 160,
javax.swing.GroupLayout.PREFERRED SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
          .addComponent(lbTitle, javax.swing.GroupLayout.DEFAULT SIZE, 139,
Short.MAX VALUE)
          .addComponent(lbValues, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addGap(11, 11, 11)
```

```
.addComponent(lbTitle, javax.swing.GroupLayout.PREFERRED_SIZE, 63,
javax.swing.GroupLayout.PREFERRED SIZE)
         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 52,
Short.MAX VALUE)
        .addComponent(lbValues)
        .addGap(38, 38, 38))
      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
         .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(lblcon)
        .addGap(28, 28, 28))
    );
  }// </editor-fold>
  @Override
  protected void paintComponent(Graphics grphcs) {
    Graphics2D g2 = (Graphics2D) grphcs;
    g2.setRenderingHint(RenderingHints.KEY ANTIALIASING,
RenderingHints.VALUE ANTIALIAS ON);
    GradientPaint g = new GradientPaint(0, 0, color1, 0, getHeight(), color2);
    g2.setPaint(g);
    g2.fillRoundRect(0, 0, getWidth(), getHeight(), 15, 15);
    g2.setColor(new Color(255, 255, 255, 50));
    g2.fillOval(getWidth() - (getHeight() / 2), 10, getHeight(), getHeight());
    g2.fillOval(getWidth() - (getHeight() / 2) - 20, getHeight() / 2 + 20, getHeight(), getHeight());
    super.paintComponent(grphcs);
  }
  // Variables declaration - do not modify
  private javax.swing.JLabel lblcon;
  private javax.swing.JLabel lbTitle;
  private javax.swing.JLabel lbValues;
  // End of variables declaration
}
```

```
package com.coals.component;
import com.coals.event.EventMenuSelected;
import com.coals.model.Model Menu;
import java.awt.Color;
import java.awt.GradientPaint;
import java.awt.Graphics;
import java.awt.Graphics2D;
import java.awt.RenderingHints;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.awt.event.MouseMotionAdapter;
import javax.swing.JFrame;
public class Menu extends javax.swing.JPanel {
  private EventMenuSelected event;
  public void addEventMenuSelected(EventMenuSelected event) {
    this.event = event;
    listMenu1.addEventMenuSelected(event);
  }
  public Menu() {
    initComponents();
    setOpaque(false);
    listMenu1.setOpaque(false);
    init();
  }
  private void init() {
    listMenu1.addItem(new Model Menu("1", "Coal Actual Volume",
Model Menu.MenuType.MENU));
    listMenu1.addItem(new Model Menu("2", "Coal Blending",
Model Menu.MenuType.MENU));
    listMenu1.addItem(new Model_Menu("3", "About", Model_Menu.MenuType.MENU));
  }
  @SuppressWarnings("unchecked")
  // <editor-fold defaultstate="collapsed" desc="Generated Code">
  private void initComponents() {
    jFileChooser1 = new javax.swing.JFileChooser();
    menuBar1 = new java.awt.MenuBar();
```

```
menu1 = new java.awt.Menu();
    menu2 = new java.awt.Menu();
    panelMoving = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    listMenu1 = new com.coals.swing.ListMenu<>();
    menu1.setLabel("File");
    menuBar1.add(menu1);
    menu2.setLabel("Edit");
    menuBar1.add(menu2);
    panelMoving.setOpaque(false);
    jLabel1.setFont(new java.awt.Font("sansserif", 1, 18)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(255, 255, 255));
    ¡Label1.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/com/raven/icon/logo.png"))); // NOI18N
    jLabel1.setText("Coal Calculator");
    javax.swing.GroupLayout panelMovingLayout = new
javax.swing.GroupLayout(panelMoving);
    panelMoving.setLayout(panelMovingLayout);
    panelMovingLayout.setHorizontalGroup(
      panelMovingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(panelMovingLayout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT_SIZE, 203,
Short.MAX VALUE)
        .addContainerGap())
    );
    panelMovingLayout.setVerticalGroup(
      panelMovingLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      . add Group (javax. swing. Group Layout. A lignment. TRAILING, \\
panelMovingLayout.createSequentialGroup()
        .addGap(15, 15, 15)
        .addComponent(jLabel1)
        .addContainerGap())
    );
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(this);
    this.setLayout(layout);
    layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addComponent(panelMoving, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
      .addComponent(listMenu1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, Short.MAX VALUE)
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addComponent(panelMoving, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE)
        .addGap(15, 15, 15)
        .addComponent(listMenu1, javax.swing.GroupLayout.DEFAULT_SIZE, 414,
Short.MAX VALUE))
    );
  }// </editor-fold>
  @Override
  protected void paintChildren(Graphics grphcs) {
    Graphics2D g2 = (Graphics2D) grphcs;
    g2.setRenderingHint(RenderingHints.KEY ANTIALIASING,
RenderingHints.VALUE ANTIALIAS ON);
    GradientPaint g = new GradientPaint(0, 0, Color.decode("#1CB5E0"), 0, getHeight(),
Color.decode("#000046"));
    g2.setPaint(g);
    g2.fillRoundRect(0, 0, getWidth(), getHeight(), 15, 15);
    g2.fillRect(getWidth() - 20, 0, getWidth(), getHeight());
    super.paintChildren(grphcs);
  }
  private int x;
  private int y;
  public void initMoving(JFrame fram) {
    panelMoving.addMouseListener(new MouseAdapter() {
      @Override
      public void mousePressed(MouseEvent me) {
        x = me.getX();
        y = me.getY();
      }
    });
    panelMoving.addMouseMotionListener(new MouseMotionAdapter() {
      @Override
      public void mouseDragged(MouseEvent me) {
```

```
fram.setLocation(me.getXOnScreen() - x, me.getYOnScreen() - y);
}
});
}
// Variables declaration - do not modify
private javax.swing.JFileChooser jFileChooser1;
private javax.swing.JLabel jLabel1;
private com.coals.swing.ListMenu<String> listMenu1;
private java.awt.Menu menu1;
private java.awt.Menu menu2;
private java.awt.MenuBar menuBar1;
private javax.swing.JPanel panelMoving;
// End of variables declaration
}
```