```
package trabajo.pkgfinal;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;
import java.io.*;
public class trabfinal {
       public static void main(String[] args) {
       Acciones thing=new Acciones();
       thing.setVisible(true);
}
package trabajo.pkgfinal;
import java.util.ArrayList;
import java.util.Arrays;
import java.util.List;
import java.util.Vector;
public class datalist {
       public Vector list;
       public datalist(){
       list=new Vector();
       }
       public void addList(contact a){
       list.add(a);
       }
       public void remove(int index){
       list.remove(index);
       }
       public String[][] matrix(){
       String data[][]=new String[list.size()][3];
       for(int i=0;i<list.size();i++){</pre>
       contact e=(contact) list.elementAt(i);
       data[i][0]=e.getNom();
       data[i][1]=e.getLastName();
       data[i][2]=e.getID();
       }
       return data;
       public String convert(){
       String text="";
       for(int i=0;i<list.size();i++){</pre>
       contact e=(contact) list.elementAt(i);
       text=text+"Nombre: "+e.getNom()+"\n"+"Apellidos: "+e.getLastName()+"\n"+"Cédula:
"+e.getID()+"\n----\n";
       }
       return text;
```

```
}
}
package trabajo.pkgfinal;
import java.io.BufferedWriter;
import java.io.File;
import java.io.FileWriter;
import javax.swing.JFileChooser;
import javax.swing.JOptionPane;
/**
* @author Camilo
public class Acciones extends javax.swing.JFrame {
       datalist contacts;
       public Acciones() {
       contacts=new datalist();
       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.
       */
       //@Override
       // <editor-fold defaultstate="collapsed" desc="Generated Code">
       public void initComponents() {
       jFileChooser1 = new javax.swing.JFileChooser();
       add = new javax.swing.JButton();
       del = new javax.swing.JButton();
       edit = new javax.swing.JButton();
       view = new javax.swing.JButton();
       savebtn = new javax.swing.JButton();
       setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
       add.setText("Añadir datos");
       add.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              addActionPerformed(evt);
       }
       });
```

```
del.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              delActionPerformed(evt);
      });
       edit.setText("Editar datos");
       edit.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              editActionPerformed(evt);
       }
      });
       view.setText("Ver Datos");
       view.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              viewActionPerformed(evt);
      }
      });
       savebtn.setText("Guardar Datos");
       savebtn.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              savebtnActionPerformed(evt);
       }
      });
       javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
       getContentPane().setLayout(layout);
       layout.setHorizontalGroup(
       layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
              .addContainerGap()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.CENTER)
              .addComponent(del)
              .addComponent(view)
              .addComponent(edit)
              .addComponent(add)
              .addComponent(savebtn))
              .addContainerGap(javax.swing.GroupLayout.DEFAULT SIZE,
Short.MAX_VALUE))
       );
       layout.setVerticalGroup(
       layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
```

del.setText("Eliminar datos");

```
.addContainerGap()
       .addComponent(add)
       .addGap(18, 18, 18)
       .addComponent(edit)
       .addGap(18, 18, 18)
       .addComponent(del)
       .addGap(18, 18, 18)
       .addComponent(view)
       .addGap(18, 18, 18)
       .addComponent(savebtn)
       .addContainerGap(23, Short.MAX_VALUE))
);
pack();
}// </editor-fold>
private void addActionPerformed(java.awt.event.ActionEvent evt) {
Add add=new Add(contacts);
add.setVisible(true);
}
private void editActionPerformed(java.awt.event.ActionEvent evt) {
Edit edit=new Edit(contacts);
edit.setVisible(true);
}
private void delActionPerformed(java.awt.event.ActionEvent evt) {
Delete del=new Delete(contacts);
del.setVisible(true);// TODO add your handling code here:
}
private void viewActionPerformed(java.awt.event.ActionEvent evt) {
// TODO add your handling code here:
View view=new View(contacts);
view.setVisible(true);
}
public void savebtnActionPerformed(java.awt.event.ActionEvent evt) {
JFileChooser fc=new JFileChooser();
fc.setFileSelectionMode(JFileChooser.DIRECTORIES_ONLY);
int resp=fc.showOpenDialog(this);
if(resp==JFileChooser.APPROVE OPTION){
```

```
File dir=fc.getSelectedFile();
       String dirnom=dir.getName();
       try{
       String content=contacts.convert();
       System.out.println(content);
       File file=new File(dir+"\\"+"I_Love_POO.txt");
       file.createNewFile();
       FileWriter fw=new FileWriter(file, true);
       BufferedWriter bw=new BufferedWriter(fw);
       bw.write(content);
       bw.close();
       String msg="El archivo se ha guardado exitosamente en: "+dirnom;
       JOptionPane.showMessageDialog(this, msg, "Mensaje",
JOptionPane.INFORMATION_MESSAGE, null);
       } catch(Exception e){
       e.printStackTrace();
       }
       }
       }
       * @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(Acciones.class.getName()).log(java.util.logging.Level.SE
VERE, null, ex);
       } catch (InstantiationException ex) {
java.util.logging.Logger.getLogger(Acciones.class.getName()).log(java.util.logging.Level.SE
VERE, null, ex);
```

```
} catch (IllegalAccessException ex) {
java.util.logging.Logger.getLogger(Acciones.class.getName()).log(java.util.logging.Level.SE
VERE, null, ex);
       } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(Acciones.class.getName()).log(java.util.logging.Level.SE
VERE, null, ex);
       //</editor-fold>
       /* Create and display the form */
       java.awt.EventQueue.invokeLater(new Runnable() {
       public void run() {
              new Acciones().setVisible(true);
       }
       });
       }
       // Variables declaration - do not modify
       private javax.swing.JButton add;
       private javax.swing.JButton del;
       private javax.swing.JButton edit;
       private javax.swing.JFileChooser jFileChooser1;
       private javax.swing.JButton savebtn;
       private javax.swing.JButton view;
       // End of variables declaration
}
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package trabajo.pkgfinal;
* @author Camilo
public class View extends javax.swing.JFrame {
       datalist list;
       public View(datalist list) {
       this.list=list;
       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() {
      pane = new javax.swing.JScrollPane();
      text = new javax.swing.JTextArea();
      check = new javax.swing.JButton();
      setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
      text.setEditable(false);
      text.setColumns(20);
      text.setRows(5);
      pane.setViewportView(text);
      check.setText("Consultar datos actuales");
      check.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
             checkActionPerformed(evt);
      }
      });
      javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
      getContentPane().setLayout(layout);
      layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.CENTER)
             .addComponent(pane, javax.swing.GroupLayout.PREFERRED_SIZE, 315,
javax.swing.GroupLayout.PREFERRED_SIZE)
             .addComponent(check))
      );
      layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
              .addComponent(pane, javax.swing.GroupLayout.PREFERRED_SIZE, 340,
javax.swing.GroupLayout.PREFERRED_SIZE)
              .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
37, Short.MAX_VALUE)
             .addComponent(check)
             .addGap(33, 33, 33))
      );
```

```
pack();
       }// </editor-fold>
       private void checkActionPerformed(java.awt.event.ActionEvent evt) {
       text.setText(list.convert());
       }
       // Variables declaration - do not modify
       private javax.swing.JButton check;
       private javax.swing.JScrollPane pane;
       private javax.swing.JTextArea text;
       // End of variables declaration
}
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package trabajo.pkgfinal;
import javax.swing.JOptionPane;
* @author Camilo
public class Delete extends javax.swing.JFrame {
       datalist list;
       public Delete(datalist list) {
       this.list=list;
       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() {
       lblname = new javax.swing.JLabel();
       lbllastname = new javax.swing.JLabel();
```

```
del = new javax.swing.JButton();
       index = new javax.swing.JTextField();
       data = new javax.swing.JTextField();
       exit = new javax.swing.JButton();
       showbtn = new javax.swing.JButton();
       setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
       Iblname.setText("Índice");
       lbllastname.setText("Dato");
       del.setText("¿Borrar realmente?");
       del.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              delActionPerformed(evt);
       }
       });
       data.setEditable(false);
       exit.setText("Cerrar");
       exit.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              exitActionPerformed(evt);
       });
       showbtn.setText("Mostrar Dato");
       showbtn.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              showbtnActionPerformed(evt);
       }
       });
       javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
       getContentPane().setLayout(layout);
       layout.setHorizontalGroup(
       layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
              .addContainerGap()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addGroup(layout.createSequentialGroup()
              .addComponent(lblname)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
.addComponent(index, javax.swing.GroupLayout.PREFERRED_SIZE, 304,
javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGroup(layout.createSequentialGroup()
             .addComponent(lbllastname)
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                   .addGroup(layout.createSequentialGroup()
                   .addComponent(del)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                   .addComponent(showbtn,
javax.swing.GroupLayout.PREFERRED_SIZE, 81,
javax.swing.GroupLayout.PREFERRED SIZE)
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                   .addComponent(exit))
                   .addComponent(data, javax.swing.GroupLayout.PREFERRED_SIZE,
303, javax.swing.GroupLayout.PREFERRED SIZE))))
             .addContainerGap(14, Short.MAX VALUE))
      );
      layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
             .addContainerGap()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(lblname)
             .addComponent(index, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(Ibllastname)
             .addComponent(data, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(del)
             .addComponent(exit)
             .addComponent(showbtn))
             .addContainerGap(javax.swing.GroupLayout.DEFAULT SIZE,
Short.MAX_VALUE))
      );
```

```
pack();
       }// </editor-fold>
       private void exitActionPerformed(java.awt.event.ActionEvent evt) {
       this.dispose();
       }
       private void delActionPerformed(java.awt.event.ActionEvent evt) {
       try{
       int cock=Integer.parseInt(index.getText())-1;
       list.remove(cock);
       JOptionPane.showMessageDialog(this,"El contacto ha sido
eliminado", "Mensaje", JOptionPane. INFORMATION MESSAGE, null);
       } catch(NumberFormatException e){
       JOptionPane.showMessageDialog(null,"Campo nulo o error en formato de numero",
"Error", JOptionPane. ERROR_MESSAGE);
       }
       }
       private void showbtnActionPerformed(java.awt.event.ActionEvent evt) {
       String[][] matrix=list.matrix();
       try{
       int cock=Integer.parseInt(index.getText())-1;
       String v1=matrix[cock][0];
       String v2=matrix[cock][1];
       String v3=matrix[cock][2];
       data.setText(v1+"-"+v2+"-"+v3);
       } catch(NumberFormatException e){
       JOptionPane.showMessageDialog(null,"Campo nulo o error en formato de numero",
"Error", JOptionPane. ERROR_MESSAGE);
                                                             g
       }
                                                             а
                                                             r
                                                             g
                                                             а
                                                            j
       // Variables declaration - do not modify
                                                            i
       private javax.swing.JTextField data;
                                                            n
       private javax.swing.JButton del;
                                                             а
       private javax.swing.JButton exit;
                                                            t
       private javax.swing.JTextField index;
                                                             0
       private javax.swing.JLabel lbllastname;
       private javax.swing.JLabel lblname;
       private javax.swing.JButton showbtn;
```

```
// End of variables declaration
}
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
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template
package trabajo.pkgfinal;
import javax.swing.JOptionPane;
/**
* @author Camilo
*/
public class Edit extends javax.swing.JFrame {
       datalist list;
       public Edit(datalist list) {
       this.list=list;
       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() {
       lblname = new javax.swing.JLabel();
       lbllastname = new javax.swing.JLabel();
       lblid = new javax.swing.JLabel();
       lblindex = new javax.swing.JLabel();
       add = new javax.swing.JButton();
       exit = new javax.swing.JButton();
       check = new javax.swing.JButton();
       name = new javax.swing.JTextField();
       lastname = new javax.swing.JTextField();
       id = new javax.swing.JTextField();
       index = new javax.swing.JTextField();
       setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
       lblname.setText("Nombre");
```

```
lblid.setText("Cédula");
       lblindex.setText("Índice");
       add.setText("Modificar");
       add.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              addActionPerformed(evt);
       }
       });
       exit.setText("Cerrar");
       exit.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              exitActionPerformed(evt);
       }
       });
       check.setText("Consultar");
       check.addActionListener(new java.awt.event.ActionListener() {
       public void actionPerformed(java.awt.event.ActionEvent evt) {
              checkActionPerformed(evt);
       });
       javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
       getContentPane().setLayout(layout);
       layout.setHorizontalGroup(
       layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
              .addContainerGap()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addGroup(layout.createSequentialGroup()
. add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                     .addComponent(lbllastname)
                     .addComponent(lblid))
              .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                     .addComponent(lastname,
javax.swing.GroupLayout.PREFERRED_SIZE, 140,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

lbllastname.setText("Apellido");

```
.addComponent(id, javax.swing.GroupLayout.PREFERRED_SIZE,
140, javax.swing.GroupLayout.PREFERRED_SIZE)))
             .addGroup(layout.createSequentialGroup()
             .addGap(13, 13, 13)
             .addComponent(add)
             .addGap(18, 18, 18)
             .addComponent(exit))
             .addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(lblname)
                    .addComponent(lblindex))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(check)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(name)
                    .addComponent(index, javax.swing.GroupLayout.PREFERRED_SIZE,
140, javax.swing.GroupLayout.PREFERRED SIZE)))))
             .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
      );
      layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
             .addContainerGap()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(lblindex)
             .addComponent(index, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
             .addComponent(check)
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(lblname)
             .addComponent(name, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(Ibllastname)
             .addComponent(lastname, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE))
```

```
.addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(lblid)
              .addComponent(id, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
              .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(add)
              .addComponent(exit))
              .addGap(10, 10, 10))
       );
       pack();
       }// </editor-fold>
       private void exitActionPerformed(java.awt.event.ActionEvent evt) {
       this.dispose();
       private void checkActionPerformed(java.awt.event.ActionEvent evt) {
       String[][] matrix=list.matrix();
       try{
       int cock=Integer.parseInt(index.getText())-1;
       String v1=matrix[cock][0];
       String v2=matrix[cock][1];
       String v3=matrix[cock][2];
       name.setText(v1);
       lastname.setText(v2);
       id.setText(v3);
       } catch(NumberFormatException e){
       JOptionPane.showMessageDialog(null,"Campo nulo o error en formato de numero",
"Error", JOptionPane. ERROR_MESSAGE);
       }
       }
       private void addActionPerformed(java.awt.event.ActionEvent evt) {
       String[][] matrix=list.matrix();
       try{
       int cock=Integer.parseInt(index.getText())-1;
       String v1=name.getText();
       String v2=lastname.getText();
       String v3=id.getText();
```

```
contact e=new contact(v1,v2,v3);
       list.remove(cock);
       list.addList(e);
       JOptionPane.showMessageDialog(this,"El contacto ha sido agregado en la posición:
"+(cock+1), "Mensaje", JOptionPane. INFORMATION MESSAGE, null);
       } catch(NumberFormatException e){
       JOptionPane.showMessageDialog(null,"Campo nulo o error en formato de numero",
"Error", JOptionPane. ERROR_MESSAGE);
       }
       }
       // Variables declaration - do not modify
       private javax.swing.JButton add;
       private javax.swing.JButton check;
       private javax.swing.JButton exit;
       private javax.swing.JTextField id;
       private javax.swing.JTextField index;
       private javax.swing.JTextField lastname;
       private javax.swing.JLabel Iblid;
       private javax.swing.JLabel Iblindex;
       private javax.swing.JLabel lbllastname;
       private javax.swing.JLabel lblname;
       private javax.swing.JTextField name;
       // End of variables declaration
}
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
this license
* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this
template
*/
package trabajo.pkgfinal;
import javax.swing.JOptionPane;
/**
* @author Camilo
public class Add extends javax.swing.JFrame {
       datalist list:
       public Add(datalist list) {
       this.list=list;
```

```
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">
public void initComponents() {
lblname = new javax.swing.JLabel();
lbllastname = new javax.swing.JLabel();
lblid = new javax.swing.JLabel();
add = new javax.swing.JButton();
name = new javax.swing.JTextField();
lastname = new javax.swing.JTextField();
id = new javax.swing.JTextField();
exit = new javax.swing.JButton();
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
lblname.setText("Nombre");
lbllastname.setText("Apellido");
lblid.setText("Cédula");
add.setText("Añadir");
add.addActionListener(new java.awt.event.ActionListener() {
public void actionPerformed(java.awt.event.ActionEvent evt) {
       addActionPerformed(evt);
}
});
exit.setText("Cerrar");
exit.addActionListener(new java.awt.event.ActionListener() {
public void actionPerformed(java.awt.event.ActionEvent evt) {
       exitActionPerformed(evt);
}
});
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(layout.createSequentialGroup()
```

```
.addContainerGap()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
             .addGroup(layout.createSequentialGroup()
                    .addComponent(lblname)
                    .addGap(18, 18, 18)
                    .addComponent(name,
javax.swing.GroupLayout.PREFERRED SIZE, 140,
javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGroup(layout.createSequentialGroup()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(lbllastname)
                    .addComponent(lblid))
                    .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(lastname)
                    .addComponent(id, javax.swing.GroupLayout.PREFERRED SIZE,
140, javax.swing.GroupLayout.PREFERRED_SIZE))))
             .addGroup(layout.createSequentialGroup()
             .addGap(17, 17, 17)
             .addComponent(add)
             .addGap(18, 18, 18)
             .addComponent(exit)))
             .addContainerGap(javax.swing.GroupLayout.DEFAULT SIZE,
Short.MAX_VALUE))
      );
      layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
             .addContainerGap()
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(lblname)
             .addComponent(name, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
             .addComponent(Ibllastname)
             .addComponent(lastname, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGap(18, 18, 18)
```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

```
.addComponent(lblid)
              .addComponent(id, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE))
              .addGap(18, 18, 18)
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(add)
              .addComponent(exit))
              .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX VALUE))
       );
       pack();
       }// </editor-fold>
       public void exitActionPerformed(java.awt.event.ActionEvent evt) {
       this.dispose();
      }
       public void addActionPerformed(java.awt.event.ActionEvent evt) {
       addContact();
       public void addContact(){
       try{
       String v1=name.getText();
       String v2=lastname.getText();
       String v3=id.getText();
       contact e=new contact(v1, v2, v3);
       list.addList(e):
       System.out.println(list.convert());
       String [][] data=list.matrix();
       //System.out.println(data[0][1]);
       JOptionPane.showMessageDialog(this,"El contacto ha sido
agregado","Mensaje",JOptionPane.INFORMATION_MESSAGE,null);
       } catch(NumberFormatException e){
       JOptionPane.showMessageDialog(null,"Campo nulo o error en formato de numero",
"Error", JOptionPane. ERROR_MESSAGE);
      }
}
       // Variables declaration - do not modify
       private javax.swing.JButton add;
       private javax.swing.JButton exit;
       private javax.swing.JTextField id;
```

```
private javax.swing.JTextField lastname; private javax.swing.JLabel lblid; private javax.swing.JLabel lbllastname; private javax.swing.JLabel lblname; private javax.swing.JTextField name; // End of variables declaration
```

}