Trabajo final Programación Orientada a Objetos

github:

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clase Aplicacion:

```java
package aplicacion;


public class Aplicacion {


    public static void main(String[] args) {
        VentanaPrincipal ventana = new VentanaPrincipal();
        ventana.setVisible(true);
    }

}
```

clase Contacto:

```java
package aplicacion;

/**
 *
 * @author User
 */
public class Contacto {
    private final String identificacion;
    private final String nombre;
    private final String apellido;

    public Contacto(String identificacion, String nombre, String apellido){
        this.identificacion = identificacion;
        this.nombre = nombre;
        this.apellido = apellido;
     }

    public String getIdentificacion(){
    return identificacion;
    }
    public String getNombre(){
    return nombre;
    }
    public String getApellido(){
    return apellido;
```

```
    }
}
```

Clase ListaContacto:

```
package aplicacion;

import java.util.*;

public class ListaContacto {
    public Vector lista;

    public void agregarEmpleado(Contacto a) {
    lista.add(a);
    }
public String convertirTexto() {
String texto = "";
for (int i = 0; i < lista.size(); i++) {

Contacto e = (Contacto) lista.elementAt(i);
// Concatena en una variable String los datos de un empleado
texto = texto + "Identificacion = " + e.getIdentificacion() + "\n" +
"Nombre = " + e.getNombre() + "\n" + "Apellido = " +
e.getApellido() +  "\n---------\n";
}
 return texto;
}
}
```

Ventana Principal form:

```
package aplicacion;

/**
 *
 * @author User
 */
public class VentanaPrincipal extends javax.swing.JFrame {

    /**
     * Creates new form VentanaPrincipal
     */
```

```java
public VentanaPrincipal() {
    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() {

    escritorioazul = new javax.swing.JDesktopPane();
    jMenuBar1 = new javax.swing.JMenuBar();
    mnuSalir = new javax.swing.JMenu();
    mnuFormulario = new javax.swing.JMenuItem();
    mnusalir = new javax.swing.JMenuItem();
    mnuAcercade = new javax.swing.JMenu();
    mnuacercade = new javax.swing.JMenuItem();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    escritorioazul.setBackground(new java.awt.Color(0, 204, 204));
    escritorioazul.setToolTipText("");

    javax.swing.GroupLayout escritorioazulLayout = new
javax.swing.GroupLayout(escritorioazul);
    escritorioazul.setLayout(escritorioazulLayout);
    escritorioazulLayout.setHorizontalGroup(

escritorioazulLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 546, Short.MAX_VALUE)
    );
    escritorioazulLayout.setVerticalGroup(

escritorioazulLayout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 329, Short.MAX_VALUE)
    );

    mnuSalir.setText("Archivo");
    mnuSalir.addActionListener(new java.awt.event.ActionListener() {
```

```java
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            mnuSalirActionPerformed(evt);
        }
    });

    mnuFormulario.setText("Formulario");
    mnuFormulario.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            mnuFormularioActionPerformed(evt);
        }
    });
    mnuSalir.add(mnuFormulario);

    mnusalir.setText("salir");
    mnusalir.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            mnusalirActionPerformed(evt);
        }
    });
    mnuSalir.add(mnusalir);

    jMenuBar1.add(mnuSalir);

    mnuAcercade.setText("Acerca ");

    mnuacercade.setText("acercade");
    mnuAcercade.add(mnuacercade);

    jMenuBar1.add(mnuAcercade);

    setJMenuBar(jMenuBar1);

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(escritorioazul, javax.swing.GroupLayout.Alignment.TRAILING)
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(escritorioazul, javax.swing.GroupLayout.Alignment.TRAILING)
    );
```

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


    private void mnuSalirActionPerformed(java.awt.event.ActionEvent evt) {
        //frmFormulario formulario = new frmFormulario ();
        //escritorioazul.add(formulario);
        //formulario.setClosable(true);
        //formulario.setVisible(true);
    }

    private void mnuFormularioActionPerformed(java.awt.event.ActionEvent evt) {
        frmFormulario formulario = new frmFormulario ();
        escritorioazul.add(formulario);
        formulario.setClosable(true);
        formulario.setVisible(true);
    }

    private void mnusalirActionPerformed(java.awt.event.ActionEvent 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;
                }
            }
```

```java
        } catch (ClassNotFoundException ex) {

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

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

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

java.util.logging.Logger.getLogger(VentanaPrincipal.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 VentanaPrincipal().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify
    private javax.swing.JDesktopPane escritorioazul;
    private javax.swing.JMenuBar jMenuBar1;
    private javax.swing.JMenu mnuAcercade;
    private javax.swing.JMenuItem mnuFormulario;
    private javax.swing.JMenu mnuSalir;
    private javax.swing.JMenuItem mnuacercade;
    private javax.swing.JMenuItem mnusalir;
    // End of variables declaration
}
```
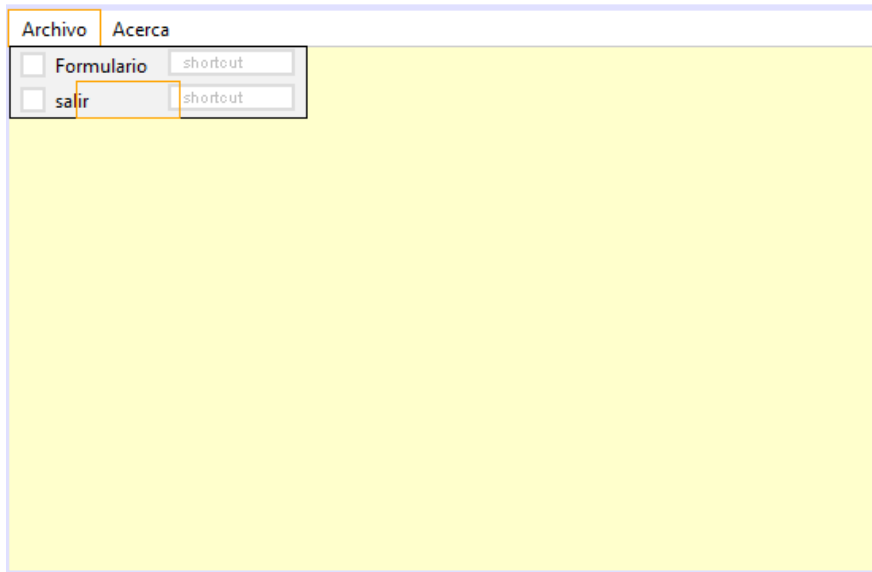
frm formulario (formulario)

package aplicacion;

import javax.swing.JOptionPane;
import java.io.FileWriter;
import java.io.IOException;
import java.io.PrintWriter;
/**
 *
 * @author User
 */
public class frmFormulario extends javax.swing.JInternalFrame {

   /**
    * Creates new form frmFormulario
    */
   public frmFormulario() {
      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.
    */

```java
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    btnSalir = new javax.swing.JButton();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    txtIdentificacion = new javax.swing.JTextField();
    txtNombre = new javax.swing.JTextField();
    txtApellido = new javax.swing.JTextField();
    btnGuardar = new javax.swing.JButton();
    btnEliminar = new javax.swing.JButton();
    btnBuscar = new javax.swing.JButton();
    btnModificar = new javax.swing.JButton();
    btnLimpiarcampos = new javax.swing.JButton();

    setTitle("Gestion de contacto");

    jLabel1.setText("Identificacion");

    btnSalir.setText("Salir");
    btnSalir.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnSalirActionPerformed(evt);
        }
    });

    jLabel2.setText("Nombre");

    jLabel3.setText("Apellido");

    btnGuardar.setText("Guardar");
    btnGuardar.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btnGuardarActionPerformed(evt);
        }
    });

    btnEliminar.setText("Eliminar");

    btnBuscar.setText("Buscar");
```

```java
        btnModificar.setText("Modificar");

        btnLimpiarcampos.setText("Limpiar campos");
        btnLimpiarcampos.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                btnLimpiarcamposActionPerformed(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()
                .addGap(35, 35, 35)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(jLabel1)
                .addComponent(jLabel2)
                .addComponent(jLabel3))
            .addComponent(btnEliminar)
            .addComponent(btnGuardar))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(38, 38, 38)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addComponent(btnBuscar)
                .addComponent(btnModificar))
            .addGap(37, 37, 37)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
                .addComponent(btnLimpiarcampos,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                .addComponent(btnSalir, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
```

```java
        .addGroup(layout.createSequentialGroup()
          .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
              .addComponent(txtIdentificacion)
              .addComponent(txtNombre)
              .addComponent(txtApellido, javax.swing.GroupLayout.DEFAULT_SIZE,
265, Short.MAX_VALUE))))
        .addContainerGap(72, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addGap(48, 48, 48)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addComponent(jLabel1)
          .addComponent(txtIdentificacion,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGap(20, 20, 20)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
          .addComponent(jLabel2)
          .addComponent(txtNombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGap(27, 27, 27)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
          .addComponent(jLabel3)
          .addComponent(txtApellido, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
          .addGap(55, 55, 55)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
          .addComponent(btnGuardar)
          .addComponent(btnBuscar)
          .addComponent(btnLimpiarcampos))
```

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(btnEliminar)
                .addComponent(btnModificar)
                .addComponent(btnSalir))
            .addContainerGap(77, Short.MAX_VALUE))
    );

    pack();
    }// </editor-fold>
private ListaContacto lista;
    private void btnLimpiarcamposActionPerformed(java.awt.event.ActionEvent evt) {
        txtIdentificacion.setText("");
        txtNombre.setText("");
        txtApellido.setText("");

    }

    private void btnGuardarActionPerformed(java.awt.event.ActionEvent evt) {
        FileWriter fichero;
        fichero = null;
        PrintWriter pw;
        pw = null;
        String valor1 = txtIdentificacion.getText();
        String valor2 = txtNombre.getText();
        String valor3 = txtApellido.getText();
        //Contacto c = new Contacto(valor1,valor2,valor3);
        //lista.agregarEmpleado(c);
        JOptionPane.showMessageDialog(this,"El empleado ha sido agregado","Mensaje",
JOptionPane.INFORMATION_MESSAGE,null);
        try{
            fichero = new FileWriter("C:\\Users\\User\\Documents\\trabajo4.txt");
            pw = new PrintWriter(fichero);

            pw.println(valor1);
            pw.print(valor2);
            pw.print(valor3);

        } catch (IOException e){
            e.printStackTrace();
        }
```
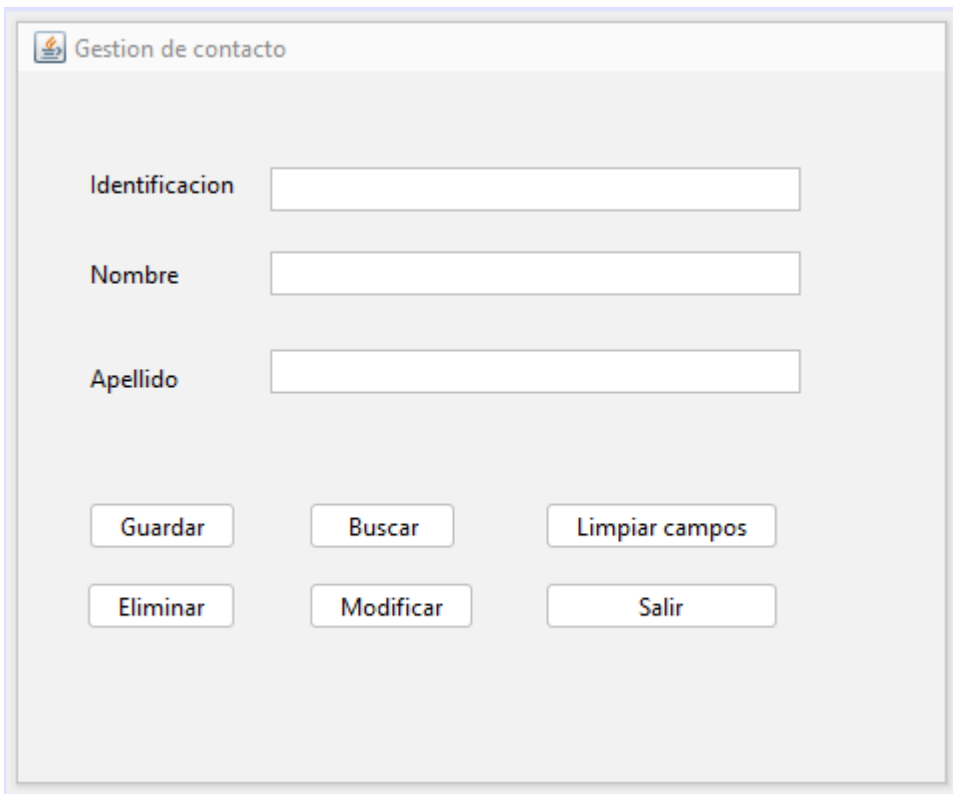
```java
    }

    private void btnSalirActionPerformed(java.awt.event.ActionEvent evt) {
        this.dispose();
    }


    // Variables declaration - do not modify
    private javax.swing.JButton btnBuscar;
    private javax.swing.JButton btnEliminar;
    private javax.swing.JButton btnGuardar;
    private javax.swing.JButton btnLimpiarcampos;
    private javax.swing.JButton btnModificar;
    private javax.swing.JButton btnSalir;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JLabel jLabel2;
    private javax.swing.JLabel jLabel3;
    private javax.swing.JTextField txtApellido;
    private javax.swing.JTextField txtIdentificacion;
    private javax.swing.JTextField txtNombre;
    // End of variables declaration
}
```