

ACTIVIDAD 6

PROGRAMACION ORIENTADA A OBJETOS GRUPO 3

ESTUDIANTE:

KEVIN ARIAS

DOCENTE:

WALTER ARBOLEDA

MEDELLÍN, COLOMBIA 28 DE JUNIO DE 2023

Link repo: https://github.com/keariasb/Actividad6Poo

CLASE GUI.JAVA

```
* 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 Actividad6Kevin;
import java.io.File;
import java.io.IOException;
import java.io.RandomAccessFile;
/**
* @author Kevin
*/
public class GUI extends javax.swing.JFrame {
  /**
   * Creates new form GUI
   */
  public GUI() {
    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() {
  ¡Panel1 = new javax.swing.JPanel();
  btnCreate = new javax.swing.JButton();
  btnRead = new javax.swing.JButton();
  btnUpdate = new javax.swing.JButton();
  btnDelete = new javax.swing.JButton();
  name = new javax.swing.JLabel();
  number = new javax.swing.JLabel();
  txtName = new javax.swing.JTextField();
  txtNumber = new javax.swing.JTextField();
  answer = new javax.swing.JLabel();
  btnClean = new javax.swing.JButton();
  jLabel1 = new javax.swing.JLabel();
  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
  jPanel1.setBackground(new java.awt.Color(102, 255, 204));
  btnCreate.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N
  btnCreate.setText("Crear");
  btnCreate.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
      btnCreateActionPerformed(evt);
    }
  });
```

```
btnRead.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N
btnRead.setText("Leer");
btnRead.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    btnReadActionPerformed(evt);
 }
});
btnUpdate.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N
btnUpdate.setText("Editar");
btnUpdate.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    btnUpdateActionPerformed(evt);
 }
});
btnDelete.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N
btnDelete.setText("Borrar");
btnDelete.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    btnDeleteActionPerformed(evt);
 }
});
name.setText("Nombre:");
number.setText("Numero:");
txtNumber.addActionListener(new java.awt.event.ActionListener() {
```

```
public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtNumberActionPerformed(evt);
      }
    });
    answer.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);
    answer.setText(" ");
    btnClean.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N
    btnClean.setText("Limpiar");
    btnClean.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnCleanActionPerformed(evt);
      }
    });
    jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 18)); // NOI18N
    jLabel1.setText("Mis contactos");
    javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);
    jPanel1.setLayout(jPanel1Layout);
    jPanel1Layout.setHorizontalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(answer, javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
```

.addGroup(jPanel1Layout.createSequentialGroup()

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(34, 34, 34)
                .addComponent(btnCreate)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                .addComponent(btnRead)
                .addGap(12, 12, 12)
                .addComponent(btnUpdate)
                .addGap(12, 12, 12)
                .addComponent(btnDelete))
              .addGroup(jPanel1Layout.createSequentialGroup()
                .addGap(56, 56, 56)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                  .addComponent(btnClean)
                  .addGroup(jPanel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                      .addComponent(number)
                      .addComponent(name))
                    .addGap(18, 18, 18)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
                      .addComponent(txtName, javax.swing.GroupLayout.DEFAULT_SIZE, 120,
Short.MAX_VALUE)
                      .addComponent(txtNumber))))
                .addGap(38, 38, 38)
                .addComponent(jLabel1)))
```

```
.addGap(0, 11, Short.MAX VALUE)))
        .addContainerGap())
    );
    ¡Panel1Layout.setVerticalGroup(
      jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
¡Panel1Layout.createSequentialGroup()
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
          .addGroup(jPanel1Layout.createSequentialGroup()
            .addGap(21, 21, 21)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
              .addComponent(name)
              .addComponent(txtName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
          .addGroup(jPanel1Layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jLabel1)))
        .addGap(18, 18, 18)
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
          .addComponent(number)
          .addComponent(txtNumber, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE))
        .addGap(15, 15, 15)
        .addComponent(btnClean)
        .addGap(18, 18, 18)
        .addComponent(answer, javax.swing.GroupLayout.PREFERRED_SIZE, 71,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 31,
Short.MAX_VALUE)
```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
          .addComponent(btnCreate)
          .addComponent(btnRead)
          .addComponent(btnUpdate)
          .addComponent(btnDelete))
        .addGap(36, 36, 36))
    );
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addContainerGap())
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    );
    pack();
  }// </editor-fold>
  private void btnCreateActionPerformed(java.awt.event.ActionEvent evt) {
    try {
      String newName = txtName.getText();
```

```
long newNumber = Long.parseLong(txtNumber.getText());
      String nameNumberString;
      String name;
      long number;
      int index;
      File file = new
File("C:\\Users\\Kevin\\Documents\\Actividad6\\files\\Actividad6friendsContact.txt");
      if (!file.exists()) {
        file.createNewFile();
      RandomAccessFile raf= new RandomAccessFile(file, "rw");
      boolean found = false;
      while (raf.getFilePointer() < raf.length()) {</pre>
        nameNumberString = raf.readLine();
         String[] lineSplit= nameNumberString.split("!");
        name = lineSplit[0];
         number = Long.parseLong(lineSplit[1]);
         if ( (name.equals( newName)) | | (number == newNumber)) {
          found = true;
           break;
        }
      if (found == false) {
        nameNumberString= newName + "!"+ String.valueOf(newNumber);
        raf.writeBytes(nameNumberString);
        raf.writeBytes(System.lineSeparator());
         answer.setText(" CONTACTO AGREGADO ");
        raf.close();
```

```
else {
         raf.close();
         answer.setText(" CONTACTO YA EXISTENTE ");
      }
    }
    catch (IOException ioe) {
      answer.setText(String.valueOf(ioe));
    }
    catch (NumberFormatException nef) {
      answer.setText(String.valueOf(nef));
    }
  }
  private void btnReadActionPerformed(java.awt.event.ActionEvent evt) {
    try {
      String nameNumberString;
      String name, newName=txtName.getText();
      long number;
      int index;
      File file = new
File("C:\\Users\\Kevin\\Documents\\Actividad6\\files\\Actividad6friendsContact.txt");
      if (!file.exists()) {
        file.createNewFile();
      }
      RandomAccessFile raf = new RandomAccessFile(file, "rw");
      boolean found = false;
      answer.setText("NO SE ENCONTRO ESE CONTACTO");
      while (raf.getFilePointer() < raf.length()) {</pre>
         nameNumberString = raf.readLine();
```

```
String[] lineSplit = nameNumberString.split("!");
      name = lineSplit[0];
      number = Long.parseLong(lineSplit[1]);
      if (name.equals(newName)){
        txtName.setText(name);
        txtNumber.setText(String.valueOf(number));
        answer.setText(" SE ENCONTRO ESE CONTACTO, MIRAR ARRIBA");
      }
  catch (IOException ioe)
  {
    answer.setText(String.valueOf(ioe));
  }
  catch (NumberFormatException nef)
    answer.setText(String.valueOf(nef));
  }
}
private void btnUpdateActionPerformed(java.awt.event.ActionEvent evt) {
  try {
    String newName = txtName.getText();
    long newNumber = Long.parseLong(txtNumber.getText());
    String nameNumberString;
    String name;
    long number;
    int index;
```

```
File file = new
File("C:\\Users\\Kevin\\Documents\\Actividad6\\files\\Actividad6friendsContact.txt");
      if (!file.exists()) {
        file.createNewFile();
      }
      RandomAccessFile raf = new RandomAccessFile(file, "rw");
      boolean found = false;
      while (raf.getFilePointer() < raf.length()) {</pre>
         nameNumberString = raf.readLine();
         String[] lineSplit = nameNumberString.split("!");
         name = lineSplit[0];
         number = Long.parseLong(lineSplit[1]);
         if (name.equals( newName) ) {
           found = true;
           break;
      }
      if (found == true) {
         File tmpFile = new File("temp.txt");
         RandomAccessFile tmpraf = new RandomAccessFile(tmpFile, "rw");
         raf.seek(0);
         while (raf.getFilePointer() < raf.length()) {
           nameNumberString = raf.readLine();
           index = nameNumberString.indexOf('!');
           name = nameNumberString.substring(0, index);
           if (name.equals(newName)) {
             nameNumberString = name + "!"+ String.valueOf(newNumber);
           }
           tmpraf.writeBytes(nameNumberString);
```

```
tmpraf.writeBytes(
        System.lineSeparator());
    }
    raf.seek(0);
    tmpraf.seek(0);
    while (tmpraf.getFilePointer() < tmpraf.length()) {</pre>
      raf.writeBytes(tmpraf.readLine());
      raf.writeBytes(System.lineSeparator());
    }
    raf.setLength(tmpraf.length());
    tmpraf.close();
    raf.close();
    tmpFile.delete();
    answer.setText(" CONTACTO EDITADO ");
  }
  else {
    raf.close();
    answer.setText("ESE CONTACTO NO EXISTE");
  }
}
catch (IOException ioe) {
  answer.setText(String.valueOf(ioe));
}
catch (NumberFormatException nef) {
  answer.setText(String.valueOf(nef));
}
```

}

```
try {
       String newName = txtName.getText();
       String nameNumberString;
       String name;
       long number;
       int index;
       File file = new
File("C:\\Users\\Kevin\\Documents\\Actividad6\\files\\Actividad6friendsContact.txt");
       if (!file.exists()) {
         file.createNewFile();
      }
       RandomAccessFile raf = new RandomAccessFile(file, "rw");
       boolean found = false;
       while (raf.getFilePointer() < raf.length()) {</pre>
         nameNumberString = raf.readLine();
         String[] lineSplit = nameNumberString.split("!");
         name = lineSplit[0];
         number = Long.parseLong(lineSplit[1]);
         if (name.equals(newName)) {
           found = true;
           break;
       if (found == true) {
         File tmpFile = new File("temp.txt");
         RandomAccessFile tmpraf = new RandomAccessFile(tmpFile, "rw");
         raf.seek(0);
         while (raf.getFilePointer() < raf.length()) {</pre>
           nameNumberString = raf.readLine();
```

```
index = nameNumberString.indexOf('!');
      name = nameNumberString.substring( 0, index);
      if (name.equals(newName)) {
        continue;
      }
      tmpraf.writeBytes(nameNumberString);
      tmpraf.writeBytes(System.lineSeparator());
    }
    raf.seek(0);
    tmpraf.seek(0);
    while (tmpraf.getFilePointer()
      < tmpraf.length()) {
      raf.writeBytes(tmpraf.readLine());
      raf.writeBytes(System.lineSeparator());
    }
    raf.setLength(tmpraf.length());
    tmpraf.close();
    raf.close();
    tmpFile.delete();
    answer.setText(" CONTACTO ELIMINADO");
 }
 else {
    raf.close();
    answer.setText(" ESE CONTACTO NO EXISTE ");
catch (IOException ioe) {
 answer.setText(String.valueOf(ioe));
```

}

```
}
  private void txtNumberActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
  }
  private void btnCleanActionPerformed(java.awt.event.ActionEvent evt) {
    txtName.setText("");
    txtNumber.setText("");
    answer.setText("");
   * @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(GUI.class.getName()).log(java.util.logging.Level.SEVERE, and the property of the property
null, ex);
             } catch (InstantiationException ex) {
                   java.util.logging.Logger.getLogger(GUI.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
             } catch (IllegalAccessException ex) {
                   java.util.logging.Logger.getLogger(GUI.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
             } catch (javax.swing.UnsupportedLookAndFeelException ex) {
                   java.util.logging.Logger.getLogger(GUI.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 GUI().setVisible(true);
                   }
             });
      }
      // Variables declaration - do not modify
      private javax.swing.JLabel answer;
      private javax.swing.JButton btnClean;
      private javax.swing.JButton btnCreate;
      private javax.swing.JButton btnDelete;
      private javax.swing.JButton btnRead;
      private javax.swing.JButton btnUpdate;
```

```
private javax.swing.JLabel jLabel1;
private javax.swing.JPanel jPanel1;
private javax.swing.JLabel name;
private javax.swing.JLabel number;
private javax.swing.JTextField txtName;
private javax.swing.JTextField txtNumber;
// End of variables declaration
}
CLASE MAIN.JAVA
```

```
package Actividad6Kevin;
```

```
/**

* @author Kevin

*/

public class main {

 public static void main(String[] args) {

 GUI interfaz = new GUI();

 interfaz.setVisible(true);

}
```

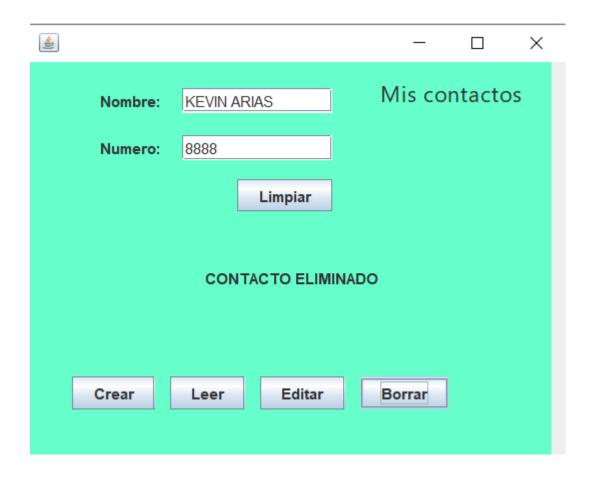
INTERFAZ GRAFICA

}









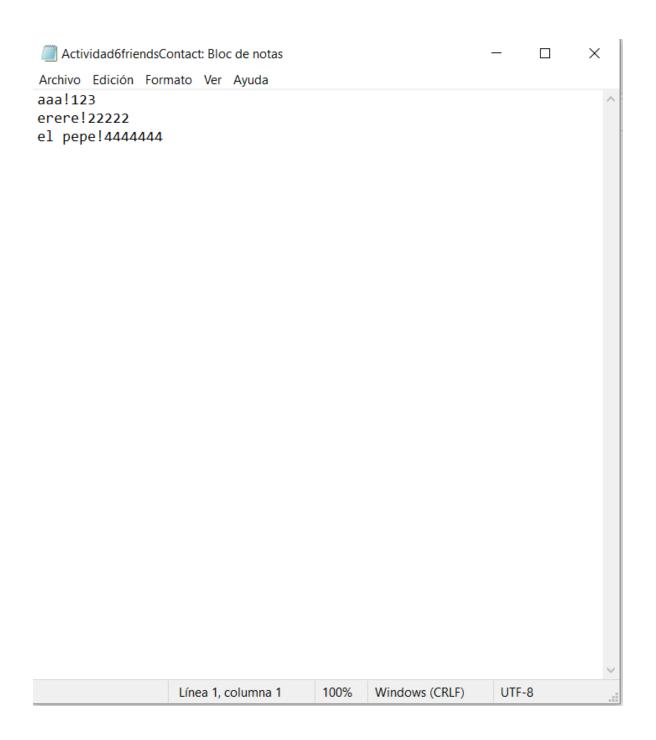


DIAGRAMA DE CASOS DE USO

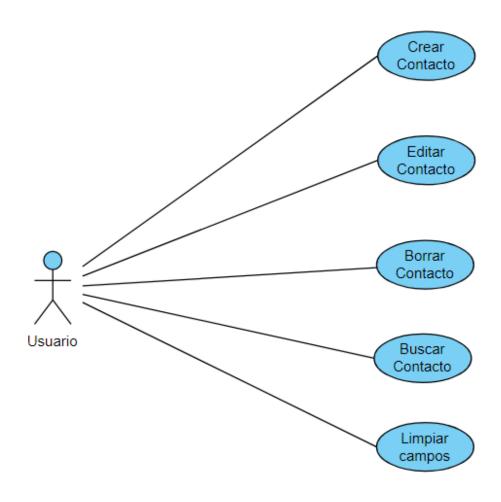


DIAGRAMA DE CLASES

