



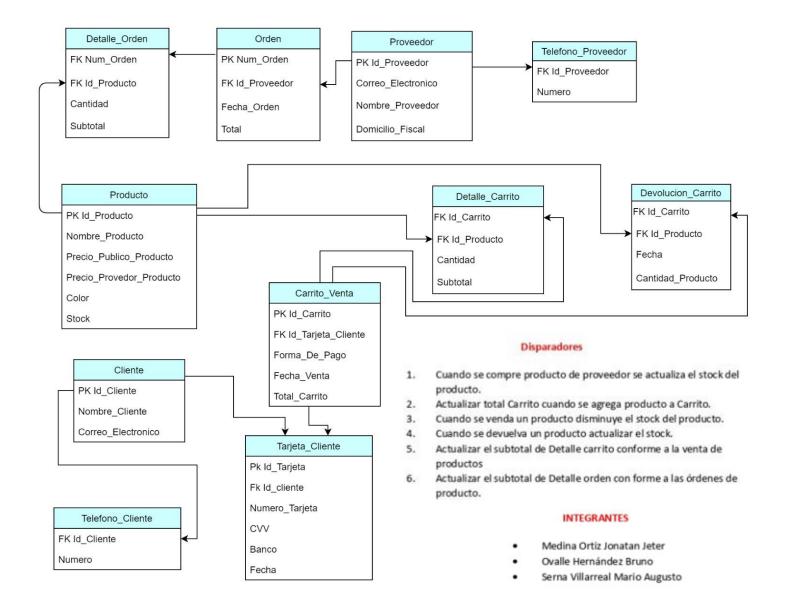
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Manual del Programador

231301

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COMPRAS EN LINEA



Clase Producto

/* * 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 Articulo; import Datos.Tarjeta_Cliente; import Datos.Telefono_Cliente; import Menu.Menu; import java.sql.Connection; import java.awt.Point; import java.awt.event.MouseAdapter; import java.awt.event.MouseEvent; import java.sql.Connection; import java.sql.DriverManager; import java.sql.ResultSet; import javax.swing.JFrame; import javax.swing.JOptionPane; import javax.swing.JTable; import javax.swing.table.DefaultTableModel; vista en la cual puedes ver, modificar, agregar o eliminar productos de la base de datos */ public class Producto extends javax.swing.JFrame { private String HOST="localhost"; //host private String PUERTO="5432"; //puerto private String DB="ComprasEnLinea"; //base de datos private String USER="postgres";//usuario private String PASS="postgres";//contraseña public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; // direccion url private Connection conexion=null; // conexion con la base de datos public String id;// id para cada producto

```
* Creates new form Producto
 public Producto(String u) {
            initComponents();
            muestra();
           this.setDefaultCloseOperation (JFrame.DISPOSE\_ON\_CLOSE);
            usuario(u);
 public void usuario(String u){
            if(u.equals("pablo")){
                     Inserta.setEnabled(false);
                     Modifica.setEnabled(false);
                      Elimina.setEnabled(false);
           }
}
 // método para conectar con la base de datos
 public Connection connectaBD(){
            Connection cone=null;
            try{
                     Class.forName("org.postgresql.Driver");
                     cone=DriverManager.getConnection(url,USER,PASS);
            }catch(Exception ex){
                     JOptionPane.showMessageDialog(null, ex);
            }
            return cone;
 // inserta un producto en la base de datos
 public void inserta(){
            //verifica si todos los campos del producto están completos
            if (Nombre.get Text (). equals Ignore Case ("") | | PrecioPublico.get Text (). equals Ignore Case ("") | PrecioPublico.get Text (). equals (). equals (). equals (). equals (). equals (). eq
                  || PrecioProveed or.getText().equals Ignore Case("")|| Color.getText().equals Ignore Case("")|| Color.getText().equal
                  ||Stock.getText().equalsIgnoreCase("")){
            JOptionPane.showMessageDialog(this, "Casillas vacias");
            }else{
                 try{
```

```
conexion=connectaBD(); // crea la conexión con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     // inserta un nuevo producto en la tabla Articulo.Producto
     String Query="INSERT INTO
Articulo.Producto(Nombre_Producto,Precio_Publico_Producto,Precio_Publico_Proveedor,Color,Stock)"
         + "VALUES("+Nombre.getText()+",CAST("+PrecioPublico.getText()+" AS DECIMAL(10,2))
,CAST(""+PrecioProveedor.getText()+"' AS DECIMAL(10,2)),""+Color.getText()+"',"+Stock.getText()+")";
     corrida.executeUpdate(Query); // ejecuta el query
     corrida.close();
     conexion.close();// cierra la conexión con la base ded atos
     //JOptionPane.showMessageDialog(null, "INSERTO");
    }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
 //muestra todos los productos en la base de datos
 public void muestra(){
    try{
     conexion=connectaBD(); // crea la conexión con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     // query para obtener los productos de la base de datos, ordenados de manera ascendente según su Id
     String\ Query="Select\ id\_producto,nombre\_producto,precio\_publico\_producto\n"+
      ",precio_publico_proveedor\n" +
      ",color,stock FROM Articulo.Producton" +
      "ORDER BY Id_Producto ASC";
      String[]datos = new String[6];
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
      DefaultTableModel model=new DefaultTableModel();
      //crea las columnas en el jtable
      model.addColumn("Id Producto");
      model.addColumn("Nombre Producto");
      model.addColumn("Precio Público Producto");
      model.addColumn("Precio Proveedor Producto");
      model.addColumn("Color");
      model.addColumn("Stock");
```

```
Productos.setModel(model);
  //llena las columnas del jtable
  while(columnas.next()){
    datos[0]=columnas.getString(1);
    datos[1]=columnas.getString(2);
    datos[2]=columnas.getString(3);//publico
    datos[3]=columnas.getString(4);//proveedor
    datos[4]=columnas.getString(5);
    datos[5]=columnas.getString(6);
    model.addRow(datos);
 }
 // obtiene la informacion del producto al hacer clic en el renglón del j<br/>table \,
  Productos.addMouseListener(new MouseAdapter() {
  public void mousePressed(MouseEvent Mouse_evt){
    JTable table=(JTable) Mouse_evt.getSource();
    Point point = Mouse_evt.getPoint();
    int row=table.rowAtPoint(point);
    // llena los jtextfield con los datos del producto
    if(Mouse_evt.getClickCount()==1){
      Nombre.setText(Productos.getValueAt(Productos.getSelectedRow(),1).toString());
      PrecioPublico.setText(Productos.getValueAt(Productos.getSelectedRow(), 2).toString());\\
      PrecioProveedor.setText(Productos.getValueAt(Productos.getSelectedRow(), 3).toString());\\
      Color.setText(Productos.getValueAt(Productos.getSelectedRow(), 4).toString());\\
      Stock.setText(Productos.getValueAt(Productos.getSelectedRow(),5).toString());
      id=Productos.getValueAt(Productos.getSelectedRow(), 0).toString();
    }
 }
 });
}catch(Exception ex){
 JOptionPane.showMessageDialog(null, ex);
```

}

}

```
public void elimina(){
          try{
             conexion=connectaBD(); // crea la conexión con la base de datos
            java.sql.Statement corrida=conexion.createStatement();
             //query para eliminar un producto de la tabla Articulo.Producto
             String Query="DELETE FROM Articulo.Producto WHERE Id_Producto="+id+"";
             corrida.executeUpdate(Query); //ejecuta el query
             corrida.close();
             conexion.close(); //cierra la conexión con la base de datos
          }catch(Exception ex){
            JOptionPane.showMessageDialog(null, ex);
          }
     //actualiza los datos del producto
     public void modifica(){
          try{
             conexion=connectaBD(); // crea la conexión con la base de datos
            java.sql.Statement corrida=conexion.createStatement();
            // query para actualizar los datos del producto
             String Query="UPDATE Articulo.Producto SET
Nombre\_Producto= ""+Nombre\_getText() + "", Precio\_Publico\_Producto= ""+PrecioPublico\_getText() + "", Precio\_Publico\_getText() + "", Precio\_getText() + "", Precio\_getTe
PrecioProveedor.getText()+"',"
                       + "Color=""+Color.getText()+"",Stock="+Stock.getText()+" WHERE Id_Producto="+id+"";
             corrida.executeUpdate(Query); //ejecuta el query
             corrida.close();
             conexion.close(); //cierra la conexión con la base de datos
          }catch(Exception ex){
            JOptionPane.showMessageDialog(null, ex);
          }
     }
      * 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() {
```

```
jLabel1 = new javax.swing.JLabel();
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
Nombre = new javax.swing.JTextField();
PrecioPublico = new javax.swing.JTextField();
PrecioProveedor = new javax.swing.JTextField();
Color = new javax.swing.JTextField();
Stock = new javax.swing.JTextField();
Inserta = new javax.swing.JButton();
Modifica = new javax.swing.JButton();
Elimina = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
Productos = new javax.swing.JTable();
setDefaultCloseOperation (javax.swing.WindowConstants.EXIT\_ON\_CLOSE); \\
setTitle("Producto");
jLabel1.setFont(new java.awt.Font("Tahoma", 2, 18)); // NOI18N
jLabel1.setForeground(new java.awt.Color(0, 204, 204));
jLabel1.setText("Producto");
jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel2.setText("Nombre");
jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setText("Precio Público");
jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel4.setText("Precio Proveedor");
jLabel5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel5.setText("Color");
jLabel6.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
```

```
jLabel6.setText("Stock");
Nombre.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Nombre.setToolTipText("");
PrecioPublico.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
PrecioProveedor.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Color.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Stock.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Inserta.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Inserta.setText("INSERTA");
Inserta.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    InsertaActionPerformed(evt);
  }
});
Modifica.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Modifica.setText("MODIFICA");
Modifica.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ModificaActionPerformed(evt);
 }
});
Elimina.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Elimina.setText("ELIMINA");
Elimina.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    EliminaActionPerformed(evt);
  }
});
```

Productos.set Model (new javax.swing.table.Default Table Model (

```
new Object [][] {
                  },
                   new String [] {
                          "Title 1", "Title 2", "Title 3", "Title 4"
                  }
             ));
             jScrollPane1.setViewportView(Productos);
             javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
             getContentPane().setLayout(layout);
             layout.setHorizontalGroup(
                   layout.create Parallel Group (javax.swing. Group Layout. Alignment. LEAD ING) \\
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                          .addContainerGap()
                          . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                 .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 990, Short.MAX_VALUE)
                                 .addGroup(layout.createSequentialGroup()
                                       . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. TRAILING, false) \\
                                             . add Component (jLabel 1, javax. swing. Group Layout. DEFAULT\_SIZE, javax. swing. S
Short.MAX_VALUE)
                                             .addComponent(jLabel2, javax.swing.GroupLayout.Alignment.LEADING)
                                             . add Component (jLabel 3, javax. swing. Group Layout. A lignment. LEADING) \\
                                             .addComponent(jLabel4, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                                             .addComponent(jLabel5, javax.swing.GroupLayout.Alignment.LEADING)
                                             . add Component (j Label 6, javax. swing. Group Layout. A lignment. LEADING)) \\
                                        .addGap(27, 27, 27)
                                       . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                             .addGroup(layout.createSequentialGroup()
                                                    . add Component (Nombre, javax.swing. Group Layout. PREFERRED\_SIZE, 325, add Component (Nombre, javax.swing. Group (Nombre, javax.swing. Group Layout. PREFERRED\_SIZE, 325, add Component (Nombre, javax.swing. Group (Nombre, javax.swing.)) (Nombre, javax.swing.swing.group (Nombre, javax.swing.swing.swing.swing.group (Nombre, javax.swing.swing.swing.swing.swing.swing.swing.swing.swing.swing.swing.swing.swing.swing.swing.swing.swing.swi
javax.swing.GroupLayout.PREFERRED_SIZE)
                                                    .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                                             .addGroup(layout.createSequentialGroup()
                                                    . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. TRAILING, false) \\
                                                           .addComponent(Stock, javax.swing.GroupLayout.DEFAULT_SIZE, 95, Short.MAX_VALUE)
                                                           .addComponent(Color, javax.swing.GroupLayout.Alignment.LEADING)
                                                           .addComponent(PrecioProveedor)
                                                            .addComponent(PrecioPublico))
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                   . add Component (Inserta, javax. swing. Group Layout. A lignment. TRAILING, \\
javax.swing. Group Layout. PREFERRED\_SIZE, 117, javax.swing. Group Layout. PREFERRED\_SIZE)
                   . add Component (Elimina, javax. swing. Group Layout. A lignment. TRAILING, \\
javax.swing.GroupLayout.PREFERRED_SIZE, 107, javax.swing.GroupLayout.PREFERRED_SIZE))
                 .addGap(75, 75, 75)
                 .addComponent(Modifica, javax.swing.GroupLayout.PREFERRED_SIZE, 118,
javax.swing.GroupLayout.PREFERRED_SIZE)
                 .addGap(67, 67, 67)))))
    );
    layout.setVerticalGroup(
      layout.create Parallel Group (javax.swing. Group Layout. Alignment. LEAD ING) \\
       .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jLabel1)
        .addGap(18, 18, 18)
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
           .addComponent(jLabel2)
           .addComponent(Nombre, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
           . add Group (layout.create Sequential Group ()\\
             .addGap(111, 111, 111)
             .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
               .addComponent(jLabel6)
               .addComponent(Stock, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
           .addGroup(layout.createSequentialGroup()
             . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
             . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
               .addGroup(layout.createSequentialGroup()
                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                    . add Component (Modifica, javax. swing. Group Layout. PREFERRED\_SIZE, 37, \\
javax.swing.GroupLayout.PREFERRED_SIZE)
                   .addComponent(Inserta, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))
                 .addGap(30, 30, 30)
                 .addComponent(Elimina, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE))
               .addGroup(layout.createSequentialGroup()
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                                                                                                                         .addComponent(jLabel3)
                                                                                                                                       . add Component (PrecioPublico, javax.swing. Group Layout. PREFERRED\_SIZE, add Component (PrecioPublico, javax.swing. Group Layout. PrecioPublico, add Component (PrecioPublico, Javax.swing. Component (PrecioPublico, Javax.swing.) (PrecioPublico, Javax.swing.) (PrecioPublico, Javax.swing.group) (PrecioPublico, Javax.swing.group) (PrecioPublico, Javax.swing.group) (PrecioPublico, Javax.swing.group) (PrecioPublico, Javax.
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                                                                                                                         . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                                                                                                         .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                                                                                                                                         .addComponent(jLabel4)
                                                                                                                                         . add Component (Precio Proveedor, javax. swing. Group Layout. PREFERRED\_SIZE, and the provential proves the provential provential
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
                                                                                                                         . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                                                                                                         . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                                                                                                                         .addComponent(jLabel5)
                                                                                                                                         . add Component (Color, javax. swing. Group Layout. PREFERRED\_SIZE, javax. swing. Group Layout. DEFAULT\_SIZE, javax. swing. Group Layout. Swing. Sw
javax.swing.GroupLayout.PREFERRED_SIZE))))))
                                                            . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED, javax. swing. Group Layout. DEFAULT\_SIZE, and the properties of the propert
Short.MAX_VALUE)
                                                            . add Component (jS croll Pane 1, javax. swing. Group Layout. PREFERRED\_SIZE, 346, javax. swing. Group Layout. Swing. S
javax.swing.GroupLayout.PREFERRED_SIZE)
                                                            .addContainerGap())
                               );
                               pack();
               }// </editor-fold>
               private void InsertaActionPerformed(java.awt.event.ActionEvent evt) {
                               // TODO add your handling code here:
                               inserta();
                               Nombre.setText("");
                               PrecioPublico.setText("");
                               PrecioProveedor.setText("");
                               Color.setText("");
                               Stock.setText("");
                               muestra();
               }
               private void EliminaActionPerformed(java.awt.event.ActionEvent evt) {
                               // TODO add your handling code here:
                               elimina();
                               Nombre.setText("");
                               PrecioPublico.setText("");
```

```
PrecioProveedor.setText("");
  Color.setText("");
  Stock.setText("");
  muestra();
}
private\ void\ Modifica Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  modifica();
  Nombre.setText("");
  PrecioPublico.setText("");
  PrecioProveedor.setText("");
  Color.setText("");
  Stock.setText("");
  muestra();
// Variables declaration - do not modify
private javax.swing.JTextField Color;
private javax.swing.JButton Elimina;
private javax.swing.JButton Inserta;
private javax.swing.JButton Modifica;
private javax.swing.JTextField Nombre;
private\ javax. swing. JT extField\ PrecioProveedor;
private javax.swing.JTextField PrecioPublico;
private javax.swing.JTable Productos;
private javax.swing.JTextField Stock;
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.JScrollPane jScrollPane1;
// End of variables declaration
```

Clase Tarjeta_Cliente

/* * To change this license header, choose License Headers in Project Properties. * To change this template file, choose Tools | Templates st and open the template in the editor. package Datos; import Usuario.Cliente; import java.sql.Connection; import java.awt.Point; import java.awt.event.MouseAdapter; import java.awt.event.MouseEvent; import java.sql.Connection; import java.sql.DriverManager; import java.sql.ResultSet; import java.sql.SQLException; import java.util.Calendar; import java.util.Date; import java.util.LinkedList; import java.util.Locale; import java.util.logging.Level; import java.util.logging.Logger; $import\ javax. swing. Combo Box Model;$ import javax.swing.JComboBox; import javax.swing.JFrame; import javax.swing.JOptionPane; import javax.swing.JTable; import javax.swing.JTextField; $import\ javax. swing. table. Default Table Model;$ vista donde puedes ver, agregar, modificar o eliminar las tarjetas del cliente

```
public class Tarjeta_Cliente extends javax.swing.JFrame {
  /*
 conjunto de variables necesarias para realizar la conexión a la
  base de datos
  */
  private String HOST="localhost"; //host
  private String PUERTO="5432"; // puerto
  private String DB="ComprasEnLinea"; // base de datos
  private String USER="postgres"; // usuario
  private String PASS="postgres"; // contraseña
  public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //direccion creada al juntar el host, puerto y base de datos
  private Connection conexion=null; // variable para la conexión
  public String id; //Variable para id de Cliente
  public String numeros; //Variable para guardar los numeros de la tarjeta
  public LinkedList<String> ids=new LinkedList<>();
  public LinkedList<String> fechas=new LinkedList<>();
  /**
  * Creates new form Tarjeta_Cliente
  */
  public Tarjeta_Cliente(String U) {
    initComponents();
    clientes();
    muestra();
    fecha();
    this.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    usuario(U);
 }
  public void usuario(String u){
    if(u.equals("pablo")){
      inserta.setEnabled(false);
      modifica.setEnabled(false);
      elimina.setEnabled(false);
    }
 }
```

// método para desplegar el calendario

```
public void fecha(){
  Calendar fechaActual = Calendar.getInstance();
  fechaActual.add(Calendar.MONTH, 5);
  Date.setSelectableDateRange(fechaActual.getTime(), null);
}
// metodo que obtiene los clientes de la base de datos ordenados de forma ascendente según el Id
public void clientes(){
  try{
    conexion=connectaBD(); // realiza la conexión a la base de datos
    java.sql.Statement corrida=conexion.createStatement();
    // query para obtener los datos del cliente, ordenados de forma ascendente según su Id
    String Query="SELECT Nombre_Cliente,Id_Cliente,Correo_Electronico FROM Usuario.Cliente ORDER BY Id_Cliente ASC";
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query);
    while(columnas.next()){
      // inserta el cliente
      Cliente.addltem(columnas.getString(1)+" - "+columnas.getString(3));
      ids.addLast(columnas.getString(2));
    }
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
}
// conecta a la base de datos a travez del driver, url, usuario y password
public Connection connectaBD(){
  Connection cone=null;
  try{
    Class.forName("org.postgresql.Driver");
    cone=DriverManager.getConnection(url,USER,PASS);
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
  return cone;
// inserta una tarjeta en la base de datos segun el Id del cliente seleccionado
public void inserta(){
  try{
```

```
java.sql.Statement corrida=conexion.createStatement();
           int id=Cliente.getSelectedIndex(); // selecciona el id del cliente
           // query que realiza la inserción de una nueva tarjeta en la tabla Datos.tarjeta_cliente
           String Query="INSERT INTO Datos.Tarjeta_Cliente(Id_Cliente,Numero_Tarjeta,CVV,Banco,Fecha)"
"VALUES(""+ids.get(Cliente.getSelectedIndex())+"",""+Numero.getText()+"",""+cvv.getText()+"",""+Banco.getText()+"",""+((()TextField)
Date.getDateEditor().getUiComponent()).getText())+"')";
           corrida.executeUpdate(Query); // ejecuta el query
           corrida.close();
           conexion.close(); //cierra la conexion
           //JOptionPane.showMessageDialog(null, "INSERTO");
         }catch(Exception ex){
         JOptionPane.showMessageDialog(null,"Numero De Tarjeta Duplicado");
         }
    //muestra en el jtable las tarjetas que estén relacionadas según el Id del cliente seleccionado
    public void muestra(){
         try{
             conexion=connectaBD(); // crea la conexión con la base de datos
            java.sql.Statement corrida=conexion.createStatement();
            //query que muestra en el jtable las tarjetas del cliente, relacionando las tablas Datos.Tarjeta_cliente y Usuario.Cliente,
ordenadas de forma ascendente
             String Query="SELECT
T.Id\_Cliente, T.Numero\_Tarjeta, T.CVV, T.Banco, to\_char(Fecha, 'MM/yyyy'), C.Nombre\_Cliente, C.Correo\_Electronico, Fecha FROMARCO, T.C. (Correo\_Electronico, Fecha FROMARCO, Correo\_Electronico, Fecha FROMARCO, Fecha FROMARCO, Correo\_Electronico, Fecha FROMARCO, Fec
Datos.Tarjeta_Cliente T,Usuario.Cliente C WHERE T.Id_Cliente=C.Id_Cliente ORDER BY T.Id_Cliente ASC";
             String[]datos = new String[8];
             corrida=conexion.createStatement();
             ResultSet columnas=corrida.executeQuery(Query);
             DefaultTableModel model=new DefaultTableModel();
            //se agregan las columnas al jtable
             model.addColumn("Id Cliente");
             model.addColumn("Número Tarjeta");
             model.addColumn("CVV");
             model.addColumn("Banco");
             model.addColumn("Fecha");
             model.addColumn("Nombre Cliente - Correo Electrónico");
             Ttarjeta.setModel(model);
             //se llenan las columnas del jtable
             while(columnas.next()){
```

conexion=connectaBD(); //crea la conexión a la base de datos

```
datos[0]=columnas.getString(1);
                   datos[1]=columnas.getString(2);
                   datos[2]=columnas.getString(3);
                   datos[3]=columnas.getString(4);
                   datos[4]=columnas.getString(5);
                   datos[5]=columnas.getString(6)+" - "+columnas.getString(7);
                   model.addRow(datos);
             }
             //obtiene los datos de la tarjeta al hacer clic en el renglón del jtable
             Ttarjeta.addMouseListener(new MouseAdapter() {
              public void mousePressed(MouseEvent Mouse_evt){
                   JTable table=(JTable) Mouse_evt.getSource();
                   Point point = Mouse_evt.getPoint();
                   int row=table.rowAtPoint(point);
                   if(Mouse_evt.getClickCount()==1){
                        //se llenan los jtextfield con los datos de la tarjeta seleccionada
                        Numero.setText(Ttarjeta.getValueAt(Ttarjeta.getSelectedRow(), 1).toString());\\
                        cvv.setText(Ttarjeta.getValueAt(Ttarjeta.getSelectedRow(),2).toString());
                        Banco.setText(Ttarjeta.getValueAt(Ttarjeta.getSelectedRow(), 3).toString());\\
                        for (int i =0; i < ids.size(); i++){
                        if (ids.get(i).equals (Ttarjeta.getValueAt (Ttarjeta.getSelectedRow(), 0).toString())) \\ \{ (ids.get(i).equals (Ttarjeta.getValueAt (Tt
                             Cliente.setSelectedIndex(i);
                       }
                        }
                        try{
                        conexion=connectaBD(); //crea la conexión con la base de datos
                        java.sql.Statement corrida;
                        //query para obtener la fecha de la tarjeta convertida en char/cadena de la tabla Datos. Tarejta_Cliente
                        String Query="SELECT to_char(Fecha,'yyyy/MM/dd') FROM Datos.Tarjeta_Cliente WHERE
Numero_Tarjeta='"+Numero.getText()+"";
                        corrida=conexion.createStatement();
                        ResultSet columnas=corrida.executeQuery(Query); // ejecuta el query
                        while(columnas.next()){
                        (({\sf JTextField}) Date.getDateEditor().getUiComponent()).setText(columnas.getString(1));\\
                        }
                        corrida.close();
                        conexion.close(); //cierra la conexion
```

```
}catch(Exception ex){
                              JOptionPane.showMessageDialog(null, ex);
                         }
                         // obtiene el id del cliente al momento de seleccionar el renglo del jtable
                          id = Ttarjeta.get Value At (Ttarjeta.get Selected Row(), \ 0).to String(); \\
                         // obtiene los numeros de la tarjeta al seleccionar el renglón dentro del jtable
                          numeros = Ttarjeta.getValueAt(Ttarjeta.getSelectedRow(), \ 1).toString();
                    }
               }
              });
          }catch(Exception ex){
               JOptionPane.showMessageDialog(null, ex);
         }
    //método para elimiar una tupla de la tabla Datos.Tarjeta_cliente
    public void elimina(){
          try{
             conexion=connectaBD(); //crea la conexión con la base de datos
            java.sql.Statement corrida=conexion.createStatement();
            // query para eliminar la tupla que corresponda al numero de tarjeta de la tabla Datos. Tarjeta_cliente
             String Query="DELETE FROM Datos.Tarjeta_Cliente WHERE Numero_Tarjeta=""+Numero.getText()+""";
             corrida.executeUpdate(Query); // ejecuta el query
             corrida.close();
             conexion.close(); //cierra la conexion
          }catch(Exception ex){
           JOptionPane.showMessageDialog(null, ex);
          }
    //método para modificar una tupla de la tabla Datos. Tarjeta_Cliente
    public void modifica(){
         try{
             conexion=connectaBD(); //crea la conexión con la base de datos
            java.sql.Statement corrida=conexion.createStatement();
            // query para actualizar los datos de la tupla relacionada con el Id del cliente y el numero de la tarjeta
             String Query="UPDATE Datos.Tarjeta_Cliente SET
Numero\_Tarjeta='"+Numero.getText()+"', Id\_Cliente='"+ids.get(Cliente.getSelectedIndex())+"', "id\_Cliente='''+ids.get(Cliente.getSelectedIndex())+"', "id\_Cliente.get(Cliente.getSelectedIndex())+"', "id\_Cliente.get(Cliente.get())+"', "id\_Cliente.get()+"', "id\_Cliente.get()+"'
```

```
"CVV="'+cvv.getText()+"',Banco="'+Banco.getText()+"',Fecha="'+(((JTextField)Date.getDateEditor().getUiComponent()).getText())+"
         + "WHERE Id_Cliente="+id+" AND Numero_Tarjeta=""+numeros+""";
     corrida.executeUpdate(Query); //ejecuta el query
     corrida.close();
     conexion.close(); //cierra la conexion
    }catch(Exception ex){
     JOptionPane.showMessageDialog(null, "Numero De Tarjeta Duplicado");
    }
  }
  /**
  * 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() {
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    Numero = new javax.swing.JTextField();
    cvv = new javax.swing.JTextField();
    Banco = new javax.swing.JTextField();
    Cliente = new javax.swing.JComboBox();
    Date = new com.toedter.calendar.JDateChooser();
    jScrollPane1 = new javax.swing.JScrollPane();
    Ttarjeta = new javax.swing.JTable();
    inserta = new javax.swing.JButton();
    elimina = new javax.swing.JButton();
```

modifica = new javax.swing.JButton();

```
setTitle("TarjetaCliente");
jLabel1.setFont(new java.awt.Font("Tahoma", 2, 18)); // NOI18N
jLabel1.setText("Tarjeta Cliente");
jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel2.setText("Número De Tarjeta");
jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setText("CVV");
jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel4.setText("Banco");
jLabel5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel5.setText("Fecha");
jLabel6.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel6.setText("Cliente");
Numero.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
Numero.setToolTipText("");
cvv.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
Banco.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
Banco.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    BancoActionPerformed(evt);
  }
});
Cliente.setModel(new javax.swing.DefaultComboBoxModel(new String[] { }));
{\tt Cliente.addActionListener(new\ java.awt.event.ActionListener()\ \{}
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ClienteActionPerformed(evt);
```

 $setDefaultCloseOperation (javax.swing.WindowConstants.EXIT_ON_CLOSE); \\$

```
}
});
Date.setDateFormatString("yyyy/MM/d");
Ttarjeta.setModel(new javax.swing.table.DefaultTableModel(
 new Object [][] {
 },
 new String [] {
    "Title 1", "Title 2", "Title 3", "Title 4"
 }
));
jScrollPane1.setViewportView(Ttarjeta);
inserta.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
inserta.setText("INSERTA");
inserta.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    insertaActionPerformed(evt);
 }
});
elimina.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
elimina.setText("ELIMINA");
elimina.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    eliminaActionPerformed(evt);
 }
});
modifica.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
modifica.setText("MODIFICA");
modifica.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    modificaActionPerformed(evt);
 }
});
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.create Parallel Group (javax.swing. Group Layout. Alignment. LEAD ING) \\
      . add Group (javax. swing. Group Layout. A lignment. TRAILING, layout. create Sequential Group () \\
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. Alignment. TRAILING) \\
           .addGroup(layout.createSequentialGroup()
             .addContainerGap()
             . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. TRAILING) \\
               .addComponent(jScrollPane1, javax.swing.GroupLayout.Alignment.LEADING)
               .addGroup(layout.createSequentialGroup()
                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                    . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
                      .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel2)
                        . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                        .addComponent(Numero, javax.swing.GroupLayout.PREFERRED_SIZE, 204,
javax.swing.GroupLayout.PREFERRED SIZE))
                      . add Group (layout.create Sequential Group ()\\
                        .addComponent(jLabel5)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                        .addComponent(Date, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                        .addGap(153, 153, 153))
                      .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel6)
                        . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                        .addComponent(Cliente, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                      .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel3)
                        .addGap(14, 14, 14)
                        .addComponent(cvv, javax.swing.GroupLayout.PREFERRED_SIZE, 55,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    . add Group (javax. swing. Group Layout. A lignment. TRAILING, layout. create Sequential Group () \\
                      .addComponent(jLabel4)
                      . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                      .addComponent(Banco, javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addGap(186, 186, 186)))
                                 .addGap(45, 45, 45)
                                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
                                      .addComponent(inserta, javax.swing.GroupLayout.DEFAULT_SIZE, 134, Short.MAX_VALUE)
                                      . add Component (elimina, javax.swing. Group Layout. DEFAULT\_SIZE, javax.swing. Group Layout. Group Layout. DEFAULT\_SIZE, javax.swing. Group Layout. DEFAULT\_S
Short.MAX VALUE))
                                 .addGap(55, 55, 55)
                                 .addComponent(modifica, javax.swing.GroupLayout.PREFERRED_SIZE, 120,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                 .addGap(0, 602, Short.MAX_VALUE))))
                     . add Group (layout.create Sequential Group ()\\
                         .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 121, javax.swing.GroupLayout.PREFERRED_SIZE)
                         .addGap(0, 0, Short.MAX_VALUE)))
                .addContainerGap())
        );
        layout.setVerticalGroup(
            layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
             .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel1)
                . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                     . add Group (layout.create Sequential Group ()\\
                         .addGap(18, 18, 18)
                         . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                             .addComponent(jLabel2)
                             .addComponent(Numero, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                     .addGroup(layout.createSequentialGroup()
                         .addGap(6, 6, 6)
                         . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                             .addComponent(modifica, javax.swing.GroupLayout.PREFERRED SIZE, 49,
javax.swing.GroupLayout.PREFERRED_SIZE)
                             .addComponent(inserta, javax.swing.GroupLayout.PREFERRED_SIZE, 49,
javax.swing.GroupLayout.PREFERRED_SIZE))))
                . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                     .addGroup(layout.createSequentialGroup()
                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                         . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                             .addComponent(jLabel3)
                             .addComponent(cvv, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                            . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                .addComponent(jLabel4)
                                .addComponent(Banco, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                            . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
                                .addComponent(jLabel5)
                                .addComponent(Date, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGap(11, 11, 11)
                            . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                .addComponent(jLabel6)
                                . add Component (Cliente, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.swing. 
javax.swing.GroupLayout.PREFERRED_SIZE)))
                       .addGroup(layout.createSequentialGroup()
                            .addGap(29, 29, 29)
                            . add Component (elimina, javax.swing. Group Layout. PREFERRED\_SIZE, 58,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                   .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                   .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 285,
javax.swing.GroupLayout.PREFERRED_SIZE)
                   .addContainerGap())
         );
         pack();
     }// </editor-fold>
     private void BancoActionPerformed(java.awt.event.ActionEvent evt) {
         // TODO add your handling code here:
    }
     private void ClienteActionPerformed(java.awt.event.ActionEvent evt) {
         // TODO add your handling code here:
     }
     private void insertaActionPerformed(java.awt.event.ActionEvent evt) {
         // TODO add your handling code here:
         inserta();
```

```
muestra();
  Numero.setText("");
  cvv.setText("");
  Banco.setText("");
}
private\ void\ modifica Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  modifica();
  muestra();
  Numero.setText("");
  cvv.setText("");
  Banco.setText("");
private\ void\ elimina Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
 elimina();
 muestra();
  Numero.setText("");
  cvv.setText("");
  Banco.setText("");
}
// Variables declaration - do not modify
private javax.swing.JTextField Banco;
private\ javax. swing. JComboBox\ Cliente;
private\ com.toedter.calendar.JDateChooser\ Date;
private javax.swing.JTextField Numero;
private javax.swing.JTable Ttarjeta;
private javax.swing.JTextField cvv;
private javax.swing.JButton elimina;
private javax.swing.JButton inserta;
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.JScrollPane jScrollPane1;
private javax.swing.JButton modifica;
// End of variables declaration
}
```

Clase Telefono_Cliente

```
* 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 Datos;
import Datos.Tarjeta_Cliente;
import Datos.Telefono_Cliente;
import Usuario.Cliente;
import Usuario.Proveedor;
import java.sql.Connection;
import java.awt.Point;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.util.LinkedList;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
vista donde puedes ver, agregar, modificar o eliminar los teléfonos del cliente
*/
public class Telefono_Cliente extends javax.swing.JFrame {
  conjunto de variables necesarias para realizar la conexión a la
  base de datos
  private String HOST="localhost";//host
  private String PUERTO="5432";// puerto
```

```
private String DB="ComprasEnLinea";// base de datos
 private String USER="postgres";// usuario
 private String PASS="postgres";// contraseña
 public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //direccion creada al juntar el host, puerto y base de datos
 private Connection conexion=null;// variable para la conexión
 public String id;//Variable para id de Cliente
 public String numeros;//Variable para guardar los numeros de teléfono
 public LinkedList<String> ids=new LinkedList<>();
  * Creates new form Telefono Cliente
 public Telefono_Cliente(String U) {
   initComponents();
   clientes();
   muestra();
   this.setDefaultCloseOperation (JFrame.DISPOSE\_ON\_CLOSE);
   usuario(U);
 public void usuario(String u){
   if(u.equals("pablo")){
     Inserta.setEnabled(false);
     Modifica.setEnabled(false);
     Elimina.setEnabled(false);
   }
 // metodo que obtiene los clientes de la base de datos ordenados de forma ascendente según el Id
public void clientes(){
   try{
     conexion=connectaBD();
     java.sql.Statement corrida=conexion.createStatement();
     // query para obtener los datos del cliente, ordenados de forma ascendente según su Id
     String Query="SELECT Nombre_Cliente,Id_Cliente,Correo_Electronico FROM Usuario.Cliente ORDER BY Id_Cliente ASC";
     corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query);
     while(columnas.next()){
       //inserta el cliente
       Cliente.addltem(columnas.getString(1)+" - "+columnas.getString(3));
```

```
ids.addLast(columnas.getString(2));
    }
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
}
 // conecta a la base de datos a travez del driver, url, usuario y password
public Connection connectaBD(){
  Connection cone=null;
  try{
    Class.forName("org.postgresql.Driver");
    cone=Driver Manager.get Connection (url, USER, PASS);\\
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
  return cone;
}
// inserta un teléfono en la base de datos segun el Id del cliente seleccionado
public void inserta(){
  try{
   conexion=connectaBD(); // crea la conexión a la base de datos
   java.sql.Statement corrida=conexion.createStatement();
   int id=Cliente.getSelectedIndex(); // selecciona el id del cliente
  // query que realiza la inserción de un nuevo télefono en la tabla Datos. Teléfono_Cliente
   String Query="INSERT INTO Datos.Telefono_Cliente(Id_Cliente,Numero)"
       + "VALUES('"+ids.get(Cliente.getSelectedIndex())+"',""+Numero.getText()+"')";
   corrida.executeUpdate(Query); // ejecuta el query
   corrida.close();
   conexion.close(); //cierra la conexion
   //JOptionPane.showMessageDialog(null, "INSERTO");
  }catch(Exception ex){
  JOptionPane.showMessageDialog(null, "Número Duplicado");
  }
}
```

```
public void muestra(){
         try{
             conexion=connectaBD(); // crea la conexión con la base de datos
             java.sql.Statement corrida=conexion.createStatement();
             //query que muestra en el jtable los teléfonos del cliente, relacionando las tablas Datos. Telefono_cliente y Usuario. Cliente,
ordenadas de forma ascendente
             String Query="SELECT D.Id_Cliente,D.Numero,P.Nombre_Cliente,P.Correo_Electronico FROM Datos.Telefono_Cliente
D,Usuario.Cliente P WHERE D.Id_Cliente=P.Id_Cliente ORDER BY D.Id_Cliente ASC";
             String[]datos =new String[5];
             corrida=conexion.createStatement();
             ResultSet columnas=corrida.executeQuery(Query);
             DefaultTableModel model=new DefaultTableModel();
             //se agregan las columnas al jtable
             model.addColumn("Id Cliente");
             model.addColumn("Número");
             model.addColumn("Nombre Cliente - Correo Electrónico");
             JTelefonoC.setModel(model);
             //se llenan las columnas del jtable
             while(columnas.next()){
                  datos[0]=columnas.getString(1);
                  datos[1]=columnas.getString(2);
                  datos[2]=columnas.getString(3)+" - "+columnas.getString(4);
                  model.addRow(datos);
             //obtiene los datos del teléfono al hacer clic en el renglón del jtable
             JTelefonoC.addMouseListener(new MouseAdapter() {
             public void mousePressed(MouseEvent Mouse_evt){
                  JTable table=(JTable) Mouse_evt.getSource();
                  Point point = Mouse_evt.getPoint();
                  int row=table.rowAtPoint(point);
                  if(Mouse\_evt.getClickCount()==1){
                       Numero.setText(JTelefonoC.getValueAt(JTelefonoC.getSelectedRow(),1).toString());
                       for (int i =0; i < ids.size(); i++){
                       if (ids.get(i).equals (JTelefonoC.getValueAt(JTelefonoC.getSelectedRow(), 0).toString())) \\ \{if (ids.get(i).equals (JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(JTelefonoC.getValueAt(J
                           Cliente.setSelectedIndex(i);
                      }
                       // obtiene el id del renglón seleccionado
```

```
id=JTelefonoC.getValueAt(JTelefonoC.getSelectedRow(),\ 0).toString();\\
          // obtiene el numero del renglón seleccionado
           numeros=JTelefonoC.getValueAt(JTelefonoC.getSelectedRow(), 1).toString();
      }
      });
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    }
  }
  //método para elimiar una tupla de la tabla Datos. Telefono_Cliente
  public void elimina(){
    try{
     conexion=connectaBD(); //crea la conexión con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     // query para eliminar la tupla que corresponda al numero de teléfono de la tabla Datos. Telefono_Cliente
     String Query="DELETE FROM Datos.Telefono_Cliente WHERE Numero=""+Numero.getText()+""";
     corrida.executeUpdate(Query);// ejecuta el query
     corrida.close();
     conexion.close(); //cierra la conexion
    }catch(Exception ex){
     JOptionPane.showMessageDialog(null, ex);
    }
//método para modificar una tupla de la tabla Datos. Telefono_cliente
  public void modifica(){
    try{
     conexion=connectaBD(); //crea la conexión con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     // query para actualizar los datos de la tupla relacionada con el Id del cliente y el numero de telefono
     String Query="UPDATE Datos.Telefono_Cliente SET
Numero=""+Numero.getText()+"",Id_Cliente=""+ids.get(Cliente.getSelectedIndex())+"""
         + "WHERE Id_Cliente="+id+" AND Numero=""+numeros+""";
     corrida.executeUpdate(Query); // ejecuta el query
     corrida.close();
     conexion.close(); //cierra la conexion
```

```
}catch(Exception ex){
  JOptionPane.showMessageDialog(null, "Número Duplicado");
  }
* 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() {
  Inserta = new javax.swing.JButton();
  Modifica = new javax.swing.JButton();
  Elimina = new javax.swing.JButton();
  jScrollPane1 = new javax.swing.JScrollPane();
  JTelefonoC = new javax.swing.JTable();
  jLabel1 = new javax.swing.JLabel();
  jLabel2 = new javax.swing.JLabel();
  jLabel3 = new javax.swing.JLabel();
  Numero = new javax.swing.JTextField();
  Cliente = new javax.swing.JComboBox();
  setDefaultCloseOperation (javax.swing.WindowConstants.EXIT\_ON\_CLOSE);
  setTitle("Teléfono Cliente");
  Inserta.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
  Inserta.setText("INSERTA");
  Inserta.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
      InsertaActionPerformed(evt);
    }
  });
  Modifica.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
  Modifica.setText("MODIFICA");
  Modifica.addActionListener(new java.awt.event.ActionListener() {
```

```
public void actionPerformed(java.awt.event.ActionEvent evt) {
    ModificaActionPerformed(evt);
  }
});
Elimina.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Elimina.setText("ELIMINA");
Elimina.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    EliminaActionPerformed(evt);
  }
});
JTelefonoC.setModel(new javax.swing.table.DefaultTableModel(
  new Object [][] {
  },
  new String [] {
    "Title 1", "Title 2", "Title 3", "Title 4"
  }
));
jScrollPane1.setViewportView(JTelefonoC);
jLabel1.setFont(new java.awt.Font("Tahoma", 2, 12)); // NOI18N
jLabel1.setForeground(new java.awt.Color(0, 204, 204));
jLabel1.setText("Teléfono Cliente");
jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel2.setText("Número");
jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setText("Cliente");
Numero.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Cliente.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
```

```
layout.setHorizontalGroup(
                         layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
                          .addGroup(layout.createSequentialGroup()
                                  .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 103, javax.swing.GroupLayout.PREFERRED_SIZE)
                                  .addGap(0, 0, Short.MAX_VALUE))
                           .addGroup(layout.createSequentialGroup()
                                  .addContainerGap()
                                  . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                           .addComponent(jScrollPane1)
                                           .addGroup(layout.createSequentialGroup()
                                                    . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING, false) \\
                                                            . add Component (jLabel 2, javax. swing. Group Layout. DEFAULT\_SIZE, javax. swing. S
Short.MAX_VALUE)
                                                            . add Component (jLabel 3, javax.swing. Group Layout. DEFAULT\_SIZE, javax.swing. Group Layout. Default. Default.
Short.MAX_VALUE))
                                                    . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                                    . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                                            .addComponent(Numero, javax.swing.GroupLayout.PREFERRED_SIZE, 181,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                                            .addComponent(Cliente, javax.swing.GroupLayout.PREFERRED_SIZE, 287,
javax.swing.GroupLayout.PREFERRED\_SIZE))
                                                   .addGap(33, 33, 33)
                                                    . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
                                                            .addComponent(Modifica, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                                                            . add Component (Inserta, javax.swing. Group Layout. DEFAULT\_SIZE, default. DEFAULT\_SIZE, default. DEFAULT\_SIZE, default. Defaul
Short.MAX_VALUE))
                                                   .addGap(75, 75, 75)
                                                    .addComponent(Elimina)
                                                    .addGap(119, 119, 119)))
                                  .addContainerGap())
                 );
                 layout.setVerticalGroup(
                         layout.create Parallel Group (javax.swing. Group Layout. Alignment. LEADING) \\
                          .addGroup(layout.createSequentialGroup()
                                  . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                           .addGroup(layout.createSequentialGroup()
                                                    .addComponent(jLabel1)
                                                    .addGap(33, 33, 33)
```

getContentPane().setLayout(layout);

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                                                        .addComponent(jLabel2)
                                                                        . add Component (Numero, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.sw
javax.swing.GroupLayout.PREFERRED_SIZE))
                                                               . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                                               .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                                                        .addComponent(jLabel3)
                                                                        . add Component (Cliente, javax. swing. Group Layout. PREFERRED\_SIZE, javax. swing. Group Layout. DEFAULT\_SIZE, javax. swing. 
 javax.swing.GroupLayout.PREFERRED_SIZE))
                                                               .addGap(56, 56, 56)
                                                               . add Component (jS croll Pane 1, javax. swing. Group Layout. PREFERRED\_SIZE, 283, in the context of the cont
javax.swing.GroupLayout.PREFERRED_SIZE))
                                                    .addGroup(layout.createSequentialGroup()
                                                              .addGap(36, 36, 36)
                                                              . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
                                                                        . add Component (Inserta, javax.swing. Group Layout. DEFAULT\_SIZE, 35, Short. MAX\_VALUE)
                                                                        .addComponent(Elimina, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
  Short.MAX_VALUE))
                                                               .addGap(18, 18, 18)
                                                               .addComponent(Modifica, javax.swing.GroupLayout.PREFERRED_SIZE, 33,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                                          .addContainerGap(13, Short.MAX_VALUE))
                      );
                      pack();
           }// </editor-fold>
           private void InsertaActionPerformed(java.awt.event.ActionEvent evt) {
                      // TODO add your handling code here:
                      inserta();
                      muestra();
                      Numero.setText("");
           private void EliminaActionPerformed(java.awt.event.ActionEvent evt) {
                      // TODO add your handling code here:
                      elimina();
                      muestra();
                      Numero.setText("");
```

```
private void ModificaActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  modifica();
  muestra();
  Numero.setText("");
}
// Variables declaration - do not modify
private\ javax. swing. JComboBox\ Cliente;
private javax.swing.JButton Elimina;
private javax.swing.JButton Inserta;
private\ javax. swing. JTable\ JTelefonoC;
private javax.swing.JButton Modifica;
private javax.swing.JTextField Numero;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JScrollPane jScrollPane1;
// End of variables declaration
```

}

Clase Telefono_Proveedor

```
/*
* 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 Datos;
import Datos.Tarjeta_Cliente;
import Datos.Telefono_Cliente;
import Usuario.Proveedor;
import java.sql.Connection;
import java.awt.Point;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.util.LinkedList;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
  vista donde puedes ver, agregar, modificar o eliminar los teléfonos del proveedor
*/
public\ class\ Telefono\_Proveedor\ extends\ javax.swing.JFrame\ \{
  conjunto de variables necesarias para realizar la conexión a la
  base de datos
  private String HOST="localhost"; //host
  private String PUERTO="5432"; // puerto
  private String DB="ComprasEnLinea"; // base de datos
  private String USER="postgres"; // usuario
  private String PASS="postgres"; // contraseña
```

```
public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //direccion creada al juntar el host, puerto y base de datos
  private Connection conexion=null; // variable para la conexión
  public String id; //Variable para id del Proveedor
  public String numeros; //Variable para guardar los numeros de teléfono
  public LinkedList<String> ids=new LinkedList<>();
  * Creates new form Telefono_Proveedor
  public Telefono_Proveedor(String U) {
    initComponents();
    muestra();
    proveedores();
    this.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    usuario(U);
  public void usuario(String u){
    if(u.equals("pablo")){
      Inserta.setEnabled(false);
      Modifica.setEnabled(false);
      Elimina.setEnabled(false);
    }
 }
  // metodo que obtiene los Proveedores de la base de datos ordenados de forma ascendente según el Id
  public void proveedores(){
      conexion=connectaBD(); // crea la conexión a la base de datos
      java.sql.Statement corrida=conexion.createStatement();
      // query para obtener los datos del proveedor, ordenados de forma ascendente según su Id
      String Query="SELECT Nombre_Provedoor,Id_Proveedor,Correo_Electronico FROM Usuario.Proveedor ORDER BY
Id_Proveedor ASC";
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query); // ejecutar el query
      while(columnas.next()){
       Proveedor.addItem(columnas.getString(1)+" - "+columnas.getString(3));
       ids.addLast(columnas.getString(2));
      }
```

```
}catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
}
// conecta a la base de datos a travez del driver, url, usuario y password
public Connection connectaBD(){
  Connection cone=null;
  try{
    Class.forName("org.postgresql.Driver");
    cone=DriverManager.getConnection(url,USER,PASS);
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
  return cone;
}
// inserta un teléfono en la base de datos segun el Id del proveedor seleccionado
public void inserta(){
  try{
   conexion=connectaBD(); // crea la conexion a la base de datos
   java.sql.Statement corrida=conexion.createStatement();
   int id=Proveedor.getSelectedIndex();// selecciona el id del proveedor
   // query que realiza la inserción de un nuevo télefono en la tabla Datos. Teléfono_Proveedor
   String Query="INSERT INTO Datos.Telefono_Proveedor(Id_Proveedor,Numero)"
       + "VALUES(""+ids.get(Proveedor.getSelectedIndex())+"",""+Numero.getText()+"")";\\
   corrida.executeUpdate(Query); // ejecuta el query
   corrida.close();
   conexion.close();// cierra la conexion con la base de datos
   //JOptionPane.showMessageDialog(null, "INSERTO");
  }catch(Exception ex){
  JOptionPane.showMessageDialog(null, "Número Duplicado");
  }
}
//muestra en el jtable los teléfonos que estén relacionadas según el ld del proveedor seleccionado
public void muestra(){
  try{
```

```
java.sql.Statement corrida=conexion.createStatement();
             //query que muestra en el jtable los teléfonos del proveedor, relacionando las tablas Datos. Telefono_Proveedor y
Usuario.Proveedor, ordenadas de forma ascendente
             String Query="SELECT D.Id_Proveedor, D.Numero, P.Nombre_Provedoor, P.Correo_Electronico FROM
Datos.Telefono_Proveedor D,Usuario.Proveedor P WHERE D.Id_Proveedor=P.Id_Proveedor ORDER BY D.Id_Proveedor ASC";
             String[]datos = new String[5];
             corrida=conexion.createStatement();
             ResultSet columnas=corrida.executeQuery(Query);
             DefaultTableModel model=new DefaultTableModel();
             //se agregan las columnas al jtable
             model.addColumn("Id Proveedor");
             model.addColumn("Número");
             model.addColumn("Nombre Proveedor - Correo Electrónico");
             JTelefonoP.setModel(model);
             //se llenan las columnas del jtable
             while(columnas.next()){
                  datos[0]=columnas.getString(1);
                  datos[1]=columnas.getString(2);
                  datos[2]=columnas.getString(3)+" - "+columnas.getString(4);
                  model.addRow(datos);
             }
             //obtiene los datos del teléfono al hacer clic en el renglón del jtable
             JTelefonoP.addMouseListener(new MouseAdapter() {
             public void mousePressed(MouseEvent Mouse_evt){
                  JTable table=(JTable) Mouse_evt.getSource();
                  Point point = Mouse_evt.getPoint();
                  int row=table.rowAtPoint(point);
                  if(Mouse_evt.getClickCount()==1){
                       Numero.setText(JTelefonoP.getValueAt(JTelefonoP.getSelectedRow(),1).toString());
                       for (int i =0; i < ids.size(); i++){
                       if (ids.get(i).equals (JTelefonoP.getValueAt(JTelefonoP.getSelectedRow(), 0).toString())) \\ \{if (ids.get(i).equals (JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(JTelefonoP.getValueAt(J
                           Proveedor.setSelectedIndex(i);
                      // obtiene el id del renglón seleccionado
                       id=JTelefonoP.getValueAt(JTelefonoP.getSelectedRow(), 0).toString();
                       // obtiene el numero del renglón seleccionado
```

conexion=connectaBD(); //crea la conexion con la base de datos

```
numeros=JTelefonoP.getValueAt(JTelefonoP.getSelectedRow(), 1).toString();
        }
      }
      });
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    }
  }
  //método para elimiar una tupla de la tabla Datos.Telefono_Proveedor
  public void elimina(){
    try{
     conexion=connectaBD();//crea la conexión con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     // query para eliminar la tupla que corresponda al numero de teléfono de la tabla Datos. Telefono_Proveedor
     String Query="DELETE FROM Datos.Telefono_Proveedor WHERE Numero=""+Numero.getText()+""";
     corrida.executeUpdate(Query); // ejecutar query
     corrida.close();
     conexion.close(); // cierra la conexión con la base de dayos
    }catch(Exception ex){
     JOptionPane.showMessageDialog(null, ex);
    }
  }
  //método para modificar una tupla de la tabla Datos.Telefono_Proveedor
  public void modifica(){
    try{
     conexion=connectaBD(); //crea la conexion con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     // query para actualizar los datos de la tupla relacionada con el Id del proveedor y el numero de telefono
     String Query="UPDATE Datos.Telefono_Proveedor SET
Numero= '"+Numero.getText()+"', Id\_Proveedor= '"+ids.get(Proveedor.getSelectedIndex())+"'" \\
         + "WHERE Id_Proveedor="+id+" AND Numero=""+numeros+""";
     corrida.executeUpdate(Query); //ejecuta el query
     corrida.close();
     conexion.close(); // cierra la conexion con la base de datos
    }catch(Exception ex){
     JOptionPane.showMessageDialog(null, "Numero Duplicado");
    }
```

```
}
/**
* This method is called from within the constructor to initialize the form.
\ensuremath{^{*}} 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() {
  jLabel3 = new javax.swing.JLabel();
  jLabel1 = new javax.swing.JLabel();
  jLabel2 = new javax.swing.JLabel();
  Numero = new javax.swing.JTextField();
  Proveedor = new javax.swing.JComboBox();
  jScrollPane1 = new javax.swing.JScrollPane();
  JTelefonoP = new javax.swing.JTable();
  Inserta = new javax.swing.JButton();
  Modifica = new javax.swing.JButton();
  Elimina = new javax.swing.JButton();
  jLabel4 = new javax.swing.JLabel();
  jLabel3.setText("jLabel3");
  set Default Close Operation (javax.swing.Window Constants. EXIT\_ON\_CLOSE); \\
  setTitle("Teléfono Proveedor");
  jLabel1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
  jLabel1.setText("Número");
  jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
  jLabel2.setText("Proveedor");
  Proveedor.setToolTipText("");
  JTelefonoP.setModel(new javax.swing.table.DefaultTableModel(
```

new Object [][] {

```
},
  new String [] {
    "Title 1", "Title 2", "Title 3", "Title 4"
  }
));
jScrollPane1.setViewportView(JTelefonoP);
Inserta.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Inserta.setText("INSERTA");
Inserta.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    InsertaActionPerformed(evt);
  }
});
Modifica.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Modifica.setText("MODIFICA");
Modifica.setToolTipText("");
Modifica. add Action Listener (new java.awt.event. Action Listener () \ \{
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ModificaActionPerformed(evt);
  }
});
Elimina.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Elimina.setText("ELIMINA");
Elimina.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    EliminaActionPerformed(evt);
  }
});
jLabel4.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
jLabel4.setForeground(new java.awt.Color(0, 153, 204));
jLabel4.setText("Teléfono Proveedor");
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(jLabel4)
                          .addGap(0, 0, Short.MAX_VALUE))
                     .addGroup(layout.createSequentialGroup()
                          .addContainerGap()
                          . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                 . add Component (jScroll Pane 1, javax. swing. Group Layout. DEFAULT\_SIZE, 912, Short. MAX\_VALUE) \\
                                 .addGroup(layout.createSequentialGroup()
                                        .addComponent(jLabel1)
                                        .addGap(18, 18, 18)
                                        .addComponent(Numero)
                                        .addGap(112, 112, 112)
                                        .addComponent(Inserta, javax.swing.GroupLayout.PREFERRED_SIZE, 106, javax.swing.GroupLayout.PREFERRED_SIZE)
                                        .addGap(18, 18, 18)
                                        .addComponent(Elimina, javax.swing.GroupLayout.PREFERRED_SIZE, 95, javax.swing.GroupLayout.PREFERRED_SIZE)
                                        . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                                        .addComponent(Modifica, javax.swing.GroupLayout.PREFERRED_SIZE, 106,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                       .addGap(167, 167, 167))
                                 . add Group (javax. swing. Group Layout. Alignment. TRAILING, layout. create Sequential Group (javax. swing. Group Layout. Alignment. TRAILING, layout. create Sequential Group (javax. swing. Group Layout. Alignment. TRAILING, layout. create Sequential Group (javax. swing. Group Layout. Alignment. TRAILING, layout. create Sequential Group (javax. swing. Group Layout. Alignment. TRAILING, layout. create Sequential Group (javax. swing. Group Layout. create Sequential Group (javax. swing. swing. group (javax. swing. swing. swing. swing. group (javax. swing. swing.
                                        .addComponent(jLabel2)
                                        . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                        .addComponent(Proveedor, javax.swing.GroupLayout.PREFERRED_SIZE, 347,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))))
             );
             layout.setVerticalGroup(
                   layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
                    .addGroup(layout.createSequentialGroup()
                          .addComponent(jLabel4)
                          .addGap(15, 15, 15)
                          . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                 .addComponent(jLabel1)
                                 . add Component (Numero, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.swing. Default\_SIZE, javax.swing.
javax.swing.GroupLayout.PREFERRED_SIZE)
                                 .addComponent(Inserta)
```

```
.addComponent(Elimina)
                              .addComponent(Modifica, javax.swing.GroupLayout.PREFERRED_SIZE, 24, javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(12, 12, 12)
                        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                              .addComponent(jLabel2)
                              . add Component (Proveedor, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax
javax.swing.GroupLayout.PREFERRED_SIZE))
                        .addGap(33, 33, 33)
                        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 275,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        . add Container Gap (javax. swing. Group Layout. DEFAULT\_SIZE, Short. MAX\_VALUE))
            );
            pack();
      }// </editor-fold>
      private void InsertaActionPerformed(java.awt.event.ActionEvent evt) {
            // TODO add your handling code here:
            inserta();
            muestra();
            Numero.setText("");
      private\ void\ Elimina Action Performed (java.awt.event. Action Event\ evt)\ \{
            // TODO add your handling code here:
            elimina();
            muestra();
            Numero.setText("");
     }
      private\ void\ Modifica Action Performed (java.awt.event. Action Event\ evt)\ \{
            // TODO add your handling code here:
            modifica();
            muestra();
```

```
// Variables declaration – do not modify private javax.swing.Jbutton Elimina; private javax.swing.Jbutton Inserta; private javax.swing.Jtable JtelefonoP; private javax.swing.Jbutton Modifica; private javax.swing.JtextField Numero; private javax.swing.JcomboBox Proveedor; private javax.swing.Jlabel jLabel1; private javax.swing.Jlabel jLabel2; private javax.swing.Jlabel jLabel3; private javax.swing.Jlabel jLabel4; private javax.swing.Jlabel jLabel4; private javax.swing.JscrollPane jScrollPane1; // Clase47 variables declaration
```

Clase Menu

```
/*
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
\ensuremath{^*} and open the template in the editor.
*/
package Menu;
import Articulo.Producto;
import Operaciones.Carrito_Venta;
import Operaciones.Orden;
import Reportes.Reporte1;
import Reportes.Reporte2;
import Usuario.Cambio_Usuario;
import Usuario.Cliente;
import Usuario.Proveedor;
import java.sql.Connection;
import javax.swing.JOptionPane;
/*
Menú inicial de Compras en Línea
public class Menu extends javax.swing.JFrame {
  * Creates new form Menu
  public String user;
  public Menu(String u) {
    initComponents();
    usuario(u);
    user=u;
  public void usuario(String u){
    if(u.equals("andrea")){
      Orden.setEnabled(false);
      Carrito.setEnabled(false);
```

```
}
}
/**
* 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() {
  jLabel1 = new javax.swing.JLabel();
  Cliente = new javax.swing.JButton();
  Producto = new javax.swing.JButton();
  Carrito = new javax.swing.JButton();
  Proveedor = new javax.swing.JButton();
  Orden = new javax.swing.JButton();
  Usuario = new javax.swing.JButton();
  Reporte1 = new javax.swing.JButton();
  Reporte2 = new javax.swing.JButton();
  setDefaultCloseOperation (javax.swing.WindowConstants.EXIT\_ON\_CLOSE);
  setTitle("Menú");
  setCursor(new java.awt.Cursor(java.awt.Cursor.DEFAULT_CURSOR));
  jLabel1.setFont(new java.awt.Font("Kristen ITC", 0, 36)); // NOI18N
  jLabel1.setForeground(new java.awt.Color(0, 204, 204));
  jLabel1.setText("MENÚ");
  Cliente.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
  Cliente.setText("Cliente");
  Cliente.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
      ClienteActionPerformed(evt);
    }
  });
```

```
Producto.setText("Producto");
Producto.addActionListener(new java.awt.event.ActionListener() {
  public\ void\ action Performed (java.awt.event. Action Event\ evt)\ \{
    ProductoActionPerformed(evt);
 }
});
Carrito.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
Carrito.setText("Carrito");
Carrito.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    CarritoActionPerformed(evt);
  }
});
Proveedor.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
Proveedor.setText("Proveedor");
Proveedor.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ProveedorActionPerformed(evt);
  }
});
Orden.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
Orden.setText("Orden");
Orden.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    OrdenActionPerformed(evt);
  }
});
Usuario.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N
Usuario.setText("Usuario");
Usuario.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    UsuarioActionPerformed(evt);
  }
});
```

```
Reporte1.setFont(new java.awt.Font("sansserif", 0, 24)); // NOI18N
             Reporte1.setText("Reporte 1");
             Reporte1.addActionListener(new java.awt.event.ActionListener() {
                   public void actionPerformed(java.awt.event.ActionEvent evt) {
                          Reporte1ActionPerformed(evt);
                   }
             });
             Reporte2.setFont(new java.awt.Font("sansserif", 0, 24)); // NOI18N
             Reporte2.setText("Reporte 2");
             Reporte2.addActionListener(new java.awt.event.ActionListener() {
                   public void actionPerformed(java.awt.event.ActionEvent evt) {
                          Reporte2ActionPerformed(evt);
                   }
             });
             javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
             getContentPane().setLayout(layout);
             layout.setHorizontalGroup(
                   layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    . add Group (layout.create Sequential Group ()\\
                          .addGap(217, 217, 217)
                          .addComponent(jLabel1)
                          .addGap(0, 0, Short.MAX_VALUE))
                     .addGroup(layout.createSequentialGroup()
                          .addGap(74, 74, 74)
                          . add Group (layout.create Parallel Group (javax.swing. Group Layout. Alignment. TRAILING) \\
                                 .addComponent(Reporte1)
                                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
                                       . add Component (Carrito, javax.swing. Group Layout. DEFAULT\_SIZE, default. DEFAULT\_SIZE, default. DEFAULT\_SIZE, default. Defaul
Short.MAX_VALUE)
                                        . add Component (Producto, javax.swing. Group Layout. A lignment. TRAILING, javax.swing. Group Layout. DEFAULT\_SIZE, and the product of the
javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)
                                        .addComponent(Cliente, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)))
                          .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 168, Short.MAX_VALUE)
                          . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                 .addComponent(Orden, javax.swing.GroupLayout.PREFERRED_SIZE, 101, javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addComponent(Proveedor)
           .addComponent(Usuario)
           .addComponent(Reporte2))
        .addGap(73, 73, 73))
    );
    layout.setVerticalGroup(
      layout.create Parallel Group (javax.swing. Group Layout. Alignment. LEADING) \\
      .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        . add Component (jLabel 1, javax. swing. Group Layout. PREFERRED\_SIZE, 42, javax. swing. Group Layout. PREFERRED\_SIZE)
        .addGap(26, 26, 26)
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
           .addComponent(Cliente, javax.swing.GroupLayout.PREFERRED_SIZE, 42, javax.swing.GroupLayout.PREFERRED_SIZE)
           .addComponent(Proveedor, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(47, 47, 47)
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
           .addComponent(Producto, javax.swing.GroupLayout.PREFERRED_SIZE, 44, javax.swing.GroupLayout.PREFERRED_SIZE)
           .addComponent(Orden, javax.swing.GroupLayout.PREFERRED_SIZE, 43, javax.swing.GroupLayout.PREFERRED_SIZE))
         .addGap(31, 31, 31)
         . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
           .addComponent(Carrito, javax.swing.GroupLayout.PREFERRED_SIZE, 50, javax.swing.GroupLayout.PREFERRED_SIZE)
           .addComponent(Usuario))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 21, Short.MAX_VALUE)
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
           .addComponent(Reporte1)
           .addComponent(Reporte2)))
    );
    pack();
  }// </editor-fold>
  private\ void\ ProductoActionPerformed (java.awt.event.ActionEvent\ evt)\ \{
    // TODO add your handling code here:
    Producto p=new Producto(user);
    p.setVisible(true);
```

```
private void ClienteActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  Cliente c=new Cliente(user);
  c.setVisible(true);
}
private void ProveedorActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  Proveedor pr=new Proveedor(user);
  pr.setVisible(true);
}
private\ void\ Orden Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  Orden pr=new Orden(user);
  pr.setVisible(true);
}
private void CarritoActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  Carrito_Venta c= new Carrito_Venta(user);
  c.setVisible(true);
}
private\ void\ Usuario Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  Cambio_Usuario c=new Cambio_Usuario();
  c.setVisible(true);
  this.setVisible(false);
}
private\ void\ Reporte1 Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  Reporte1 c=new Reporte1();
  c.setVisible(true);
```

```
private void Reporte2ActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  Reporte2 c=new Reporte2();
  c.setVisible(true);
}
* @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(Cambio_Usuario.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
  } catch (InstantiationException ex) {
    java.util.logging.Logger.getLogger(Cambio_Usuario.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
  } catch (IllegalAccessException ex) {
    java.util.logging.Logger.getLogger(Cambio_Usuario.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
  } catch (javax.swing.UnsupportedLookAndFeelException ex) {
    java.util.logging.Logger.getLogger(Cambio_Usuario.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 Menu("").setVisible(true);
    }
```

```
});
}
```

}

```
// Variables declaration - do not modify private javax.swing.JButton Carrito; private javax.swing.JButton Cliente; private javax.swing.JButton Orden; private javax.swing.JButton Producto; private javax.swing.JButton Proveedor; private javax.swing.JButton Reporte1; private javax.swing.JButton Reporte2; private javax.swing.JButton Usuario; private javax.swing.JButton Usuario; private javax.swing.JLabel jLabel1; // End of variables declaration
```

Clase Carrito_Venta

```
/*
* 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 Operaciones;
import java.awt.Point;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.LinkedList;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
/**
*vista donde puedes ver las ventas del carrito, agregar, modificar o eliminar.
*/
public class Carrito_Venta extends javax.swing.JFrame {
  private String HOST="localhost"; //host
  private String PUERTO="5432"; //puerto
  private String DB="ComprasEnLinea"; //base de datos
  private String USER="postgres"; //usuario
  private String PASS="postgres";// contraseña
  public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url
  private Connection conexion=null; // variable para la base de datos
  public LinkedList<String> ids=new LinkedList<>();
```

```
public String user; // usuario
  * Creates new form Carrito_Venta
  public Carrito_Venta(String U) {
    initComponents();
    muestra();
    fecha();
    this.setDefaultCloseOperation (JFrame.DISPOSE\_ON\_CLOSE);
    clientes();
    usuario(U);
    user=U;
  }
  public void usuario(String u){
    if(u.equals("pablo")){
      INSERTAR.setEnabled(false);
      MODIFICAR.setEnabled(false);
      ELIMINAR.setEnabled(false);
    }
  }
/ // muestra los clientes que esten realizando compras
  public void clientes(){
    try{
      conexion=connectaBD(); //crea la base de datos
      java.sql.Statement corrida=conexion.createStatement();
      //query que obtiene todos los clientes que esten realizando compras, junto con su forma de pago
      String Query="SELECT U.Nombre_Cliente,T.Id_Tarjeta,Correo_Electronico FROM Usuario.Cliente U,Datos.Tarjeta_Cliente T
WHERE U.Id_Cliente=T.Id_Cliente ORDER BY U.Id_Cliente ASC";
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query); // ejecuta el query
      //agrega la informacion al jtable
      while(columnas.next()){
        Clientes.addItem(columnas.getString(1)+" - "+columnas.getString(3));
        ids.addLast(columnas.getString(2));
      }
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
```

```
}
     //conecta con la base de datos
     public Connection connectaBD(){
          Connection cone=null;
          try{
               Class.forName("org.postgresql.Driver");
              cone=DriverManager.getConnection(url,USER,PASS);
          }catch(Exception ex){
              JOptionPane.showMessageDialog(null, ex);
          return cone;
    }
     //da formato a la fecha
     public void fecha() {
     Calendar fechaActual = Calendar.getInstance();
     // Formatear la fecha actual a un formato de String
     SimpleDateFormat formatoFecha = new SimpleDateFormat("dd/MM/yyyy");
     String fechaFormateada = formatoFecha.format(fechaActual.getTime());
     fecha.setText(fechaFormateada);
     // muestra todas las compras en el jtable
     public void muestra(){
          try{
              conexion=connectaBD(); //crea la conexion con la base de datos
              java.sql.Statement corrida=conexion.createStatement();
              // query para mostrar las compras junto con el nombre del client, la forma de pago y fecha de la compra
               String Query="SELECT
C.Id\_Carrito, Cl. Nombre\_Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, 'yyyy/MM/dd'), C. Total\_Carrito, T. Banco, RIGHT(T. Numero, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, 'yyyy/MM/dd'), C. Total\_Carrito, T. Banco, RIGHT(T. Numero, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, 'yyyy/MM/dd'), C. Total\_Carrito, T. Banco, RIGHT(T. Numero, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, 'yyyy/MM/dd'), C. Total\_Carrito, T. Banco, RIGHT(T. Numero, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, 'yyyy/MM/dd'), C. Total\_Carrito, T. Banco, RIGHT(T. Numero, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, 'yyyy/MM/dd'), C. Total\_Carrito, T. Banco, RIGHT(T. Numero, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, 'yyyy/MM/dd'), C. Total\_Carrito, T. Banco, RIGHT(T. Numero, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, Cliente, Cliente, Cliente, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, Cliente, Cliente, Cliente, Cliente, C. Forma\_De\_Pago, to\_char(Fecha\_Venta, Cliente, Cli
_Tarjeta,4),Cl.Id_Cliente,Cl.Correo_Electronico\n" +
                FROM Operaciones.Carrito_Venta C,Usuario.Cliente Cl,Datos.Tarjeta_Cliente T\n" +
                WHERE\ C.Id\_Tarjeta\_Cliente=T.Id\_Tarjeta\ AND\ T.Id\_Cliente=Cl.Id\_Cliente \\ \ \ ''+
                ORDER BY C.Id_Carrito\n" +
              String[]datos =new String[7];
               corrida=conexion.createStatement();
               ResultSet columnas=corrida.executeQuery(Query); // ejecuta el query
               DefaultTableModel model=new DefaultTableModel();
```

```
// crea las columnas para almacenar la información
model.addColumn("Id Carrito");
model.addColumn("Nombre Cliente - Correo Electrónico");
model.addColumn("Forma De Pago");
model.addColumn("Fecha Venta");
model.addColumn("Total");
model.addColumn("Banco");
model.addColumn("Número Tarjeta");
// llena las columnas con los datos obtenidos
carritos.setModel(model);
while(columnas.next()){
  datos[0]=columnas.getString(1);
  {\tt datos[1]=} column as. {\tt getString(2)+"-"+} column as. {\tt getString(9)};
  datos[2]=columnas.getString(3);
  datos[3]=columnas.getString(4);
  datos[4]=columnas.getString(5);
  datos[5]=columnas.getString(6);
  datos[6]=columnas.getString(7);
  model.addRow(datos);
}
int columnWidth = 150; // Tamaño de columna en píxeles
int columnIndex = 1; // Índice de la columna a modificar
carritos.getColumnModel().getColumn(columnIndex).setPreferredWidth(columnWidth);\\
// obitene los datos de la compra al hacer clic en el renglon del jtable
carritos.addMouseListener(new MouseAdapter() {
  //al hacer clic dentro del jtable, obtiene los datos del rengón
public void mousePressed(MouseEvent Mouse_evt){
  JTable table=(JTable) Mouse_evt.getSource();
  Point point = Mouse_evt.getPoint();
  int row=table.rowAtPoint(point); // numero del renglon
  if(Mouse\_evt.getClickCount()==1){
    String valor = carritos.getValueAt(carritos.getSelectedRow(), 6).toString();
    String id = busqueda(valor);
    for (int i =0; i < ids.size(); i++){
    if(ids.get(i).equals(id)){
      Clientes.setSelectedIndex(i);
```

```
}
           }
           // obtiene los datos segun el id
           id = carritos.get Value At(carritos.get Selected Row(), \, 0).to String(); \\
           total.set Text (carritos.get Value At (carritos.get Selected Row (), 4).to String ()); \\
           if (carritos.get Value At (carritos.get Selected Row (), 2). to String (). equals ("Debito")) \{
             Pago.setSelectedIndex(0);
           }else{
             Pago.setSelectedIndex(1);
           }
           try{
           conexion=connectaBD(); // hace la conexion con la base de datos
           java.sql.Statement corrida;
           //query que obtiene la fecha convertida en char
           String Query="SELECT to_char(Fecha_Venta,'yyyy/MM/dd') FROM Operaciones.Carrito_Venta WHERE
Id_Carrito="+id+"";
           corrida=conexion.createStatement();
           ResultSet columnas=corrida.executeQuery(Query);
           while(columnas.next()){
           fecha.setText(columnas.getString(1));
           }
           corrida.close();
           conexion.close();
           }catch(Exception ex){
             JOptionPane.showMessageDialog(null, ex);
           }
        }
      });
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    }
  //obitene la compra segun la tarjeta
  public String busqueda(String cadena){
    String Query1="";
```

```
try{
     conexion=connectaBD(); // crea la conexion con la base de datos
     java.sql.Statement corrida;
     // query que obtiene todas las compras realizadas con el numero de tarjeta
     Query1="SELECT Id_Tarjeta FROM Datos.Tarjeta_Cliente WHERE RIGHT(Numero_Tarjeta,4)=""+cadena+""";
     corrida=conexion.createStatement();
     ResultSet columnas=corrida.executeQuery(Query1); // ejecuta el query
      while(columnas.next()){
        Query1=columnas.getString(1);
       }
     corrida.close();
     conexion.close();// cierra la conexion con la base de datos
   }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  return Query1;
  // inserta una nueva compra/venta
  public void inserta(){
    try{
     conexion=connectaBD(); // crea la conexión con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     // query para insertar una nueva venta en la base de datos
     String\ Query="INSERT\ INTO\ Operaciones. Carrito\_Venta(Id\_Tarjeta\_Cliente, Forma\_De\_Pago, Fecha\_Venta, Total\_Carrito)"
"VALUES(""+ids.get(Clientes.getSelectedIndex())+"",""+Pago.getSelectedItem()+"",""+fecha.getText()+"",""+total.getText()+"")"; \\
     corrida.executeUpdate(Query); // ejecuta el query
     corrida.close();
     conexion.close(); // cierra la conexion
    }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
    }
  // elimina una venta del carrito
  public void elimina(){
    try{
```

```
conexion=connectaBD(); // crea la conexion con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     // query para eliminar una venta del carrito
     String Query="DELETE FROM Operaciones.Carrito_Venta WHERE Id_Carrito="+carritos.getValueAt(carritos.getSelectedRow(),
0).toString()+" ";
     corrida.executeUpdate(Query); //ejecuta el query
     corrida.close();
     conexion.close(); // cierra la conexion
    }catch(Exception ex){
     JOptionPane.showMessageDialog(null, "No se puede eliminar porque tiene productos en el");
    }
  // modfica la venta del carrito
  public void modifica(){
    try{
     conexion=connectaBD(); //crea la conexion con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     Pattern patron = Pattern.compile("\\d+");
     Matcher\ matcher = patron.matcher(carritos.getValueAt(carritos.getSelectedRow(), 0).toString());
     String num="";
     while (matcher.find()) {
      num = matcher.group();
      }
     //query para actualizar la venta del carito
      String Query="UPDATE Operaciones.Carrito_Venta SET"
          + "Id_Tarjeta_Cliente= "+ids.get(Clientes.getSelectedIndex())+", Fecha_Venta=""+fecha.getText()+"', Total_Carrito=
""+carritos.getValueAt(carritos.getSelectedRow(), 4).toString()+"" "
           + "WHERE Id_Carrito="+num+"";
     corrida.executeUpdate(Query); // ejecuta el query
     corrida.close();
     conexion.close();// cierra la conexion
    }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
```

```
/**
* 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() {
  INSERTAR = new javax.swing.JButton();
  MODIFICAR = new javax.swing.JButton();
  DEVOLUCION = new javax.swing.JButton();
  jLabel1 = new javax.swing.JLabel();
  jLabel2 = new javax.swing.JLabel();
  jLabel3 = new javax.swing.JLabel();
  jLabel4 = new javax.swing.JLabel();
  jLabel5 = new javax.swing.JLabel();
  ELIMINAR = new javax.swing.JButton();
  DETALLE = new javax.swing.JButton();
  jScrollPane1 = new javax.swing.JScrollPane();
  carritos = new javax.swing.JTable();
  Clientes = new javax.swing.JComboBox();
  Pago = new javax.swing.JComboBox();
  total = new javax.swing.JLabel();
  fecha = new javax.swing.JLabel();
  setDefaultCloseOperation (javax.swing.WindowConstants.EXIT\_ON\_CLOSE); \\
  setTitle("Carrito Venta");
  INSERTAR.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
  INSERTAR.setText("INSERTAR");
  INSERTAR.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
      INSERTARActionPerformed(evt);
    }
  });
```

```
MODIFICAR.setText("MODIFICAR");
MODIFICAR.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    MODIFICARActionPerformed(evt);
 }
});
DEVOLUCION.setBackground(new java.awt.Color(0, 0, 0));
DEVOLUCION.setForeground(new java.awt.Color(0, 255, 255));
DEVOLUCION.setText("DEVOLUCIÓN");
DEVOLUCION.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    DEVOLUCIONActionPerformed(evt);
  }
});
jLabel1.setForeground(new java.awt.Color(255, 0, 51));
jLabel1.setText("Carrito Venta");
jLabel2.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel2.setText("Cliente");
jLabel3.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel3.setText("Forma De Pago");
jLabel4.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel4.setText("Fecha");
jLabel5.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel5.setText("Total");
ELIMINAR.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
ELIMINAR.setText("ELIMINAR");
ELIMINAR.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ELIMINARActionPerformed(evt);
  }
});
```

```
DETALLE.setForeground(new java.awt.Color(0, 255, 255));
DETALLE.setText("DETALLE CARRITO");
DETALLE.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    DETALLEActionPerformed(evt);
 }
});
carritos.setModel(new javax.swing.table.DefaultTableModel(
  new Object [][] {
 },
 new String [] {
    "Title 1", "Title 2", "Title 3", "Title 4"
 }
));
jScrollPane1.setViewportView(carritos);
Clientes.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    ClientesActionPerformed(evt);
 }
});
Pago.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "Debito", "Credito" }));
total.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
total.setForeground(new java.awt.Color(255, 51, 51));
total.setText("$0.00");
fecha.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
fecha.setText("fecha/Hola");
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
```

DETALLE.setBackground(new java.awt.Color(0, 0, 0));

```
layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
      .addGroup(layout.createSequentialGroup()
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
          .addGroup(layout.createSequentialGroup()
             .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 163, javax.swing.GroupLayout.PREFERRED_SIZE)
             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
          .addGroup(layout.createSequentialGroup()
             .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
               .addGroup(layout.createSequentialGroup()
                 .addComponent(jLabel5)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED, \\
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                 .addComponent(total))
               . add Group (javax. swing. Group Layout. A lignment. TRAILING, layout. create Sequential Group (javax. swing. Group Layout.) \\
                 .addComponent(jLabel4)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED, \\
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                 .addComponent(fecha))
               .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                 .addComponent(jLabel3)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED, \\
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                 .addComponent(Pago, javax.swing.GroupLayout.PREFERRED_SIZE, 221,
javax.swing.GroupLayout.PREFERRED_SIZE))
               .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()
                 .addComponent(jLabel2, javax.swing.GroupLayout.DEFAULT_SIZE, 132, Short.MAX_VALUE)
                 .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                 .addComponent(Clientes, javax.swing.GroupLayout.PREFERRED_SIZE, 387,
javax.swing.GroupLayout.PREFERRED_SIZE)))
             .addGap(107, 107, 107)))
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. Alignment. TRAILING) \\
          .addComponent(INSERTAR, javax.swing.GroupLayout.PREFERRED_SIZE, 104,
javax.swing.GroupLayout.PREFERRED SIZE)
           . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
             .addComponent(MODIFICAR)
             .addComponent(ELIMINAR, javax.swing.GroupLayout.PREFERRED_SIZE, 104,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(84, 84, 84)
        .addComponent(DEVOLUCION, javax.swing.GroupLayout.PREFERRED_SIZE, 137,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(45, 45, 45)
```

```
.addComponent(DETALLE)
                 .addGap(245, 245, 245))
             .addComponent(jScrollPane1)
        );
        layout.setVerticalGroup(
            layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
             .addGroup(layout.createSequentialGroup()
                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
                     . add Group (layout.create Sequential Group ()\\
                          .addGap(18, 18, 18)
                          .addComponent(INSERTAR)
                          .addGap(18, 18, 18)
                         . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                              .addComponent(MODIFICAR)
                              .addComponent(DEVOLUCION, javax.swing.GroupLayout.PREFERRED_SIZE, 34,
javax.swing.GroupLayout.PREFERRED SIZE)
                              .addComponent(DETALLE, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED\_SIZE))
                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
                         .addComponent(ELIMINAR))
                     .addGroup(layout.createSequentialGroup()
                          .addComponent(jLabel1)
                          . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                          . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                              .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 16,
javax.swing.GroupLayout.PREFERRED_SIZE)
                              .addComponent(Clientes, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED\_SIZE))
                          .addGap(7, 7, 7)
                          . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                              .addComponent(jLabel3)
                              . add Component (Pago, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.swing. Group Layout. Default. Default.
javax.swing.GroupLayout.PREFERRED_SIZE))
                          . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                          . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                              .addComponent(fecha)
                              .addComponent(jLabel4))
                          .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                              .addGroup(layout.createSequentialGroup()
```

```
.addGap(10, 10, 10)
                                                  .addComponent(jLabel5))
                                           . add Group (layout.create Sequential Group ()\\
                                                  .addGap(3, 3, 3)
                                                  .addComponent(total)))
                                      .addGap(0, 0, Short.MAX_VALUE)))
                         . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                         . add Component (jScroll Pane 1, javax. swing. Group Layout. PREFERRED\_SIZE, 282, javax. Swing. Swing. Group Layout. PREFERRED\_SIZE, 282, javax. Swing. Sw
javax.swing.GroupLayout.PREFERRED_SIZE)
                         .addContainerGap(14, Short.MAX_VALUE))
            );
             pack();
       }// </editor-fold>
       private void ClientesActionPerformed(java.awt.event.ActionEvent evt) {
             // TODO add your handling code here:
      }
       private\ void\ DETALLEActionPerformed (java.awt.event.ActionEvent\ evt)\ \{
             // TODO add your handling code here:
             Detalle_Carrito d=new Detalle_Carrito(user);
             d.setVisible(true);
             this.setVisible(false);
      }
       private\ void\ DEVOLUCIONActionPerformed (java.awt.event.ActionEvent\ evt)\ \{
            // TODO add your handling code here:
             Devolucion_Carrito d=new Devolucion_Carrito(user);
             d.setVisible(true);
             this.setVisible(false);
      }
       private void INSERTARActionPerformed(java.awt.event.ActionEvent evt) {
             // TODO add your handling code here:
             inserta();
             muestra();
             total.setText("$0.00");
```

```
}
private\ void\ ELIMINARActionPerformed (java.awt.event.ActionEvent\ evt)\ \{
  // TODO add your handling code here:
  elimina();
  muestra();
  total.setText("$0.00");
}
private\ void\ MODIFICAR Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  modifica();
  muestra();
  total.setText("$0.00");
// Variables declaration - do not modify
private javax.swing.JComboBox Clientes;
private javax.swing.JButton DETALLE;
private javax.swing.JButton DEVOLUCION;
private javax.swing.JButton ELIMINAR;
private\ javax. swing. JButton\ INSERTAR;
private javax.swing.JButton MODIFICAR;
private javax.swing.JComboBox Pago;
private javax.swing.JTable carritos;
private javax.swing.JLabel fecha;
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.JScrollPane jScrollPane1;
private javax.swing.JLabel total;
// End of variables declaration
```

}

Clase Detalle_Carrito

/* * 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 Operaciones; import java.awt.Point; import java.awt.event.MouseAdapter; import java.awt.event.MouseEvent; import java.awt.event.WindowAdapter; import java.awt.event.WindowEvent; import java.sql.Connection; import java.sql.DriverManager; import java.sql.ResultSet; import java.util.Calendar; import java.util.LinkedList; import java.util.regex.Matcher; import java.util.regex.Pattern; import javax.swing.JFrame; import javax.swing.JOptionPane; import javax.swing.JTable; import javax.swing.table.DefaultTableModel; /** vista donde se muestran los detalles del carrito */ public class Detalle_Carrito extends javax.swing.JFrame { private String HOST="localhost";//host private String PUERTO="5432";//puerto private String DB="ComprasEnLinea";//base de datos private String USER="postgres";//usuario private String PASS="postgres";// contraseña public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url private Connection conexion=null;// variable para la base de datos public LinkedList<String> idsProductos=new LinkedList<>();

```
public LinkedList<String> idsCarritos=new LinkedList<>();
public String user;// usuario
* Creates new form Detalle_Carrito
public Detalle_Carrito(String U) {
  initComponents();
  muestra();
  productos();
  carritos();
  this.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
  cierra();
  usuario(U);
  user=U;
public void usuario(String u){
  if(u.equals("pablo")){
    INSERTA.setEnabled(false);
    MODIFICA.setEnabled(false);
    ELIMINA.setEnabled(false);
  }
//conecta con la base de datos
public Connection connectaBD(){
  Connection cone=null;
  try{
    Class.forName("org.postgresql.Driver");
    cone = Driver Manager.get Connection (url, USER, PASS); \\
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
  return cone;
}
// cierra la vista
public void cierra(){
  this.addWindowListener(new WindowAdapter() {
    public void windowClosing(WindowEvent e) {
     Carrito_Venta d=new Carrito_Venta(user);
```

```
d.setVisible(true);
      }
    });
  // muestra los carritos en el jtable
  public void carritos(){
    try{
      conexion=connectaBD(); // crea la base de datos
      java.sql.Statement corrida=conexion.createStatement();
      // query para obtener todos los carritos de la base de datos de forma ascendente seún su Id
      String Query="SELECT C.Nombre_Cliente,O.Id_Carrito \n" +
      "FROM Operaciones.Carrito_Venta O,Usuario.Cliente C,Datos.Tarjeta_Cliente T \n" +
      "WHERE C.Id_Cliente=T.Id_Cliente AND T.Id_Tarjeta=O.Id_Tarjeta_Cliente \n" +
      "ORDER BY O.Id_Carrito ASC";
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query); // ejecuta el query
      while(columnas.next()){
        Carritos.addItem(columnas.getString(2)+" - "+columnas.getString(1));
        idsCarritos.addLast(columnas.getString(2));
      }
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    }
  }
  //obtiene los productos de la base de datos
  public void productos(){
    try{
      conexion=connectaBD(); // crea la base de datos
      java.sql.Statement corrida=conexion.createStatement();
      //query para obtener los productos de la base de datos
      String Query="SELECT Nombre_Producto,Id_Producto,Precio_Publico_Producto FROM Articulo.Producto ORDER BY
Id_Producto ASC";
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query); // ejecutar el query
      while(columnas.next()){
        Productos.addItem(columnas.getString(1)+" - "+columnas.getString(3));
        idsProductos.addLast(columnas.getString(2));
```

```
}catch(Exception ex){
              JOptionPane.showMessageDialog(null, ex);
         }
    }
     // inserta un nuevo detalle carrito
     public void inserta(){
           try{
            conexion=connectaBD(); // crea la conexión con la base de datos
           java.sql.Statement corrida=conexion.createStatement();
            // query para insertar un nuevo detalle carrito
            String Query="INSERT INTO Operaciones.Detalle_Carrito(Id_Carrito,Id_Producto,Cantidad,SubTotal)"
"VALUES("+ids Carritos.get(Carritos.getSelectedIndex())+","+ids Productos.get(Productos.getSelectedIndex())+","+Cantidad.getText(") + (ids Productos.getSelectedIndex())+","+Cantidad.getText(") + (ids Productos.getSelectedIndex())+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex()+","+Cantidad.getSelectedIndex
)+",NULL)";
            corrida.executeUpdate(Query); // ejecutar el query
            corrida.close();
            conexion.close(); // cierra la conexión
          }catch(Exception ex){
          JOptionPane.showMessageDialog(null,"Sobrepasa los productos en existencia");
          }
          // muestra todos los detalles carrito en el jtable
     public void muestra(){
          try{
              conexion=connectaBD(); // crea la base de datos
              java.sql.Statement corrida=conexion.createStatement();
              // query para obtener el detalle de cada carrito, concatena el id del carrito, los datos del cliente con su forma de pago y los
detalles del producto
              String Query="SELECT CONCAT(C.Id_Carrito,' -
',Cl.Nombre_Cliente),D.Cantidad,D.SubTotal,P.Nombre_Producto,P.Precio_Publico_Producto \n" +
               "FROM Operaciones.Detalle_Carrito D,Operaciones.Carrito_Venta C,Usuario.Cliente Cl,Datos.Tarjeta_Cliente
T,Articulo.Producto P\n" +
               "WHERE C.Id Carrito=D.Id Carrito AND C.Id Tarjeta Cliente=T.Id Tarjeta AND T.Id Cliente=Cl.Id Cliente AND
P.Id_Producto=D.Id_Producto\n" +
              "ORDER BY D.Id_Carrito ASC";
              String[]datos = new String[7];
              corrida=conexion.createStatement();
```

}

```
ResultSet columnas=corrida.executeQuery(Query); // ejecuta el query
DefaultTableModel model=new DefaultTableModel();
//agrega las columnas en el jtable
model.addColumn("Carrito Cliente");
model.addColumn("Cantidad");
model.addColumn("SubTotal");
model.addColumn("Nombre Producto - Precio Público Producto");
// inserta la informacion en el jtable
Detalles.setModel(model);
while(columnas.next()){
  datos[0]=columnas.getString(1);
  datos[1]=columnas.getString(2);
  datos[2]=columnas.getString(3);
  datos[3]=columnas.getString(4)+" - "+columnas.getString(5);
  model.addRow(datos);
}
// obtiene los datos del renglón al hacer clic dentro del jtable
Detalles.addMouseListener(new MouseAdapter() {
public void mousePressed(MouseEvent Mouse_evt){
  JTable table=(JTable) Mouse_evt.getSource();
  Point point = Mouse_evt.getPoint();
  int row=table.rowAtPoint(point);
  if(Mouse_evt.getClickCount()==1){
    // llena los jtextfield de cantidad y subtotal
    Cantidad.setText(Detalles.getValueAt(Detalles.getSelectedRow(),1).toString());
    subtotal.set Text (Detalles.get Value At (Detalles.get Selected Row (), 2).to String ()); \\
    String valor = Detalles.getValueAt(Detalles.getSelectedRow(), 3).toString();
    String id = buscaProducto(valor);
    for (int i =0; i < idsProductos.size(); i++){
    if(idsProductos.get(i).equals(id)){
    Productos.setSelectedIndex(i);
    }
    }
    String valor2 = Detalles.getValueAt(Detalles.getSelectedRow(), 0).toString();
    Pattern patron = Pattern.compile("\\d+");
    Matcher matcher = patron.matcher(valor2);
```

```
String num="";
         while (matcher.find()) {
         num = matcher.group();
         for (int i =0; i < idsCarritos.size(); i++){
         if (ids Carritos.get (i).equals (num)) \{\\
         Carritos.setSelectedIndex(i);
        }
    });
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
}
// método que obtiene un producto de la tabla Articulo.Producto
public String buscaProducto(String cadena){
  String Query1=""; // variable para el query
   conexion=connectaBD(); // conexion de la base de datos
   java.sql.Statement corrida;
   // query que obtiene los datos del producto segun su nombre
   Query1="SELECT Id_Producto FROM Articulo.Producto WHERE Nombre_Producto=""+cadena+""";
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query1);
    while(columnas.next()){
      Query1=columnas.getString(1);
     }
   corrida.close();
   conexion.close();// cierra la conexion
 }catch(Exception ex){
  JOptionPane.showMessageDialog(null, ex);
}
 return Query1;
}
```

```
//elimina detalle del carrito
    public void elimina(){
            conexion=connectaBD(); // cra conexion a la base de datos
           java.sql.Statement corrida=conexion.createStatement();
            //query para elminar carrito donde el Id y el Id del producto coincidan en la base de datos
            String Query="DELETE FROM Operaciones.Detalle Carrito WHERE
Id_Carrito="+idsCarritos.get(Carritos.getSelectedIndex())+" AND "
                    + \\"Id\_Producto="+idsProductos.get(Productos.getSelectedIndex())+"\\"
                    + "AND Cantidad="+Cantidad.getText()+" AND SubTotal =""+subtotal.getText()+""";
            corrida.executeUpdate(Query); //ejecutar query
            corrida.close();
            conexion.close(); // cierra la conexión
         }catch(Exception ex){
           JOptionPane.showMessageDialog(null, ex);
    // modificar el detalle del carrito
     public void modifica(){
            try{
            conexion=connectaBD(); //crea la conexion
           java.sql.Statement corrida=conexion.createStatement();
            String i=Detalles.getValueAt(Detalles.getSelectedRow(), 0).toString();
            Pattern patron = Pattern.compile("\\d+");
            Matcher matcher = patron.matcher(i);
            String num="";
            while (matcher.find()) {
             num = matcher.group();
            String Ca=Detalles.getValueAt(Detalles.getSelectedRow(),1).toString();
            String valor = Detalles.getValueAt(Detalles.getSelectedRow(), 3).toString();
            String idProducto = buscaProducto(valor);
            //query para modificar el carrito, obitene los datos al hacer clic en el renglom dentro del jtable
            String Query="UPDATE Operaciones.Detalle_Carrito SET"
"Id\_Carrito="+idsCarritos.get(Carritos.getSelectedIndex())+", Id\_Producto="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.g
tidad="+Cantidad.getText()+",SubTotal=NULL "
                     + " WHERE Id_Carrito="+num+" AND Cantidad="+Ca+" AND Id_Producto="+idProducto+"";
```

```
corrida.executeUpdate(Query); //ejecuta el query
   corrida.close();
   conexion.close(); //cierra la conexion con la base de datos
  }catch(Exception ex){
  JOptionPane.showMessageDialog(null, "Sobrepasa los productos en existencia");
  }
/**
* 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() {
  jLabel1 = new javax.swing.JLabel();
  jLabel2 = new javax.swing.JLabel();
  jLabel3 = new javax.swing.JLabel();
  jLabel4 = new javax.swing.JLabel();
  jLabel5 = new javax.swing.JLabel();
  subtotal = new javax.swing.JLabel();
  INSERTA = new javax.swing.JButton();
  MODIFICA = new javax.swing.JButton();
  jScrollPane1 = new javax.swing.JScrollPane();
  Detalles = new javax.swing.JTable();
  ELIMINA = new javax.swing.JButton();
  Carritos = new javax.swing.JComboBox();
  Productos = new javax.swing.JComboBox();
  Cantidad = new javax.swing.JTextField();
  set Default Close Operation (javax.swing.Window Constants. EXIT\_ON\_CLOSE); \\
  setTitle("Detalle Carrito");
  jLabel1.setFont(new java.awt.Font("sansserif", 3, 14)); // NOI18N
  jLabel1.setForeground(new java.awt.Color(0, 0, 204));
  jLabel1.setText("Detalle Carrito");
```

```
jLabel2.setText("Carrito");
jLabel3.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel3.setText("Producto");
jLabel4.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel4.setText("Cantidad");
jLabel5.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel5.setText("SubTotal");
subtotal.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
subtotal.setForeground(new java.awt.Color(255, 51, 51));
subtotal.setText("$0.00");
INSERTA.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
INSERTA.setText("INSERTA");
INSERTA. add Action Listener (new java.awt.event. Action Listener () \ \{
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    INSERTAActionPerformed(evt);
  }
});
MODIFICA.setFont (new java.awt.Font ("sansserif", 0, 14)); // NOI18N
MODIFICA.setText("MODIFICA");
MODIFICA.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    MODIFICAActionPerformed(evt);
  }
});
Detalles.setModel(new javax.swing.table.DefaultTableModel(
  new Object [][] {
  },
  new String [] {
```

jLabel2.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N

```
"Title 1", "Title 2", "Title 3", "Title 4"
      }
    ));
    jScrollPane1.setViewportView(Detalles);
    ELIMINA.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
    ELIMINA.setText("ELIMINA");
    ELIMINA.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        ELIMINAActionPerformed(evt);
      }
    });
    Cantidad.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
      .addGroup(layout.createSequentialGroup()
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
           .addComponent(jLabel1)
           . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. TRAILING, false) \\
             .addGroup(layout.createSequentialGroup()
               .addComponent(jLabel5)
               .addGap(18, 18, Short.MAX_VALUE)
               .addComponent(subtotal)
               .addGap(251, 251, 251))
             .addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup()
               . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
                 .addGroup(layout.createSequentialGroup()
                    .addComponent(jLabel4)
                    . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED, \\
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(Cantidad, javax.swing.GroupLayout.PREFERRED_SIZE, 83,
javax.swing.GroupLayout.PREFERRED_SIZE)
                   .addGap(120, 120, 120))
                 .addGroup(layout.createSequentialGroup()
                    . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
```

```
.addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel2)
                       .addGap(37, 37, 37)
                       .addComponent(Carritos, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                     .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel3)
                        .addGap(18, 18, 18)
                        .addComponent(Productos, javax.swing.GroupLayout.PREFERRED_SIZE, 217,
javax.swing.GroupLayout.PREFERRED SIZE)))
                   . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED))) \\
               . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
                 .addComponent(MODIFICA)
                 .addComponent(INSERTA, javax.swing.GroupLayout.PREFERRED_SIZE, 94,
javax.swing.GroupLayout.PREFERRED_SIZE)
                 .addComponent(ELIMINA, javax.swing.GroupLayout.PREFERRED_SIZE, 94,
javax.swing.GroupLayout.PREFERRED\_SIZE))))
          .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 1122,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addContainerGap())
    );
    layout.setVerticalGroup(
      layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
      .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
          .addComponent(jLabel2)
          .addComponent(Carritos, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
          .addComponent(INSERTA))
        .addGap(8, 8, 8)
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
          . add Group (layout.create Sequential Group ()\\
             . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
               .addComponent(jLabel3)
               .addComponent(Productos, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
             . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
             .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
               .addComponent(jLabel4)
```

```
.addComponent(Cantidad, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
             . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
             . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
               .addComponent(jLabel5)
               .addComponent(subtotal)))
           . add Group (layout.create Sequential Group ()\\
             .addComponent(MODIFICA)
             . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
             .addComponent(ELIMINA)))
         .addGap(36, 36, 36)
         .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 320,
javax.swing.GroupLayout.PREFERRED\_SIZE))
    );
    pack();
  }// </editor-fold>
  private void INSERTAActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    inserta();
    muestra();
    Cantidad.setText("");
  private void MODIFICAActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    modifica();
    muestra();
    Cantidad.setText("");
  }
  private void ELIMINAActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    elimina();
    muestra();
    Cantidad.setText("");
```

```
// Variables declaration - do not modify
private javax.swing.JTextField Cantidad;
private\ javax. swing. JComboBox\ Carritos;
private javax.swing.JTable Detalles;
private\ javax. swing. JB utton\ ELIMINA;
private javax.swing.JButton INSERTA;
private javax.swing.JButton MODIFICA;
private javax.swing.JComboBox Productos;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private\ javax. swing. JLabel\ jLabel 5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JLabel subtotal;
// End of variables declaration
```

}

Clase Detalle_Orden

/* * 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 Operaciones; import java.awt.Point; import java.awt.event.MouseAdapter; import java.awt.event.MouseEvent; import java.awt.event.WindowAdapter; import java.awt.event.WindowEvent; import java.sql.Connection; import java.sql.DriverManager; import java.sql.ResultSet; import java.util.LinkedList; import javax.swing.JFrame; import javax.swing.JOptionPane; import javax.swing.JTable; import javax.swing.JTextField; $import\ javax. swing. table. Default Table Model;$ vista donde se muestra los detalles de las ordenes creadas $public\ class\ Detalle_Orden\ extends\ javax.swing.JFrame\ \{$ private String HOST="localhost";//host private String PUERTO="5432";//puerto private String DB="ComprasEnLinea";//base de datos private String USER="postgres";//usuario private String PASS="postgres";// contraseña public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url private Connection conexion=null;// variable para la base de datos public String idFuerte; public LinkedList<String> idsProductos=new LinkedList<>(); public LinkedList<String> idsOrdenes=new LinkedList<>();

```
public LinkedList<String> NomProductos=new LinkedList<>();
public String user;// usuario
* Creates new form Detalle_Orden
public Detalle_Orden(String U) {
  initComponents();
  this.setDefaultCloseOperation (JFrame.DISPOSE\_ON\_CLOSE);
  muestra();
  productos();
  ordenes();
  cierra();
  usuario(U);
  user=U;
public void usuario(String u){
  if(u.equals("pablo")){
    inserta.setEnabled(false);
    modifica.setEnabled(false);
    elimina.setEnabled(false);
  }
//cierra la vista
public void cierra(){
  this.addWindowListener(new WindowAdapter() {
    public void windowClosing(WindowEvent e) {
     Orden d=new Orden(user);
     d.setVisible(true);
  });
}
  //obtiene los productos de la base de datos
public void productos(){
  try{
    conexion=connectaBD();// crea la coenxion a la base de datos
    java.sql.Statement corrida=conexion.createStatement();
     //query para obtener los productos de la base de datos
```

```
String Query="SELECT Nombre_Producto,Id_Producto,Precio_Publico_Proveedor FROM Articulo.Producto ORDER BY
Id_Producto ASC";
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query);// ejecutar el query
      while(columnas.next()){
       Productos.addItem(columnas.getString(1)+" - "+columnas.getString(3));
       idsProductos.addLast(columnas.getString(2));
      }
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    }
  // método que obtiene un producto de la tabla Articulo.Producto
  public String buscaProducto(String cadena){
    String Query1="";// variable para el query
    try{
     conexion=connectaBD();// conexion de la base de datos
     java.sql.Statement corrida;
     // query que obtiene los datos del producto segun su nombre
     Query1="SELECT Id_Producto FROM Articulo.Producto WHERE Nombre_Producto=""+cadena+""";
     corrida=conexion.createStatement();
     ResultSet columnas=corrida.executeQuery(Query1);
      while(columnas.next()){
        Query1=columnas.getString(1);
       }
     corrida.close();
     conexion.close();// cierra la conexion
   }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
   return Query1;
  // obtiene las ordenes en la base de datos
  public void ordenes(){
  try{
      conexion=connectaBD();// conexion de la base de datos
      java.sql.Statement corrida=conexion.createStatement();
```

// query que obtiene las ordenes y los datos del proveedor

```
String Query="SELECT O.Num_Orden,O.Id_Proveedor,P.Nombre_Provedoor FROM Operaciones.Orden
O, Usuario. Proveedor P "
         + "WHERE O.Id_Proveedor=P.Id_Proveedor ORDER BY O.Num_Orden ASC";
     corrida=conexion.createStatement();
     ResultSet columnas=corrida.executeQuery(Query); // ejecuta el query
     while(columnas.next()){
       Ordenes.addItem(columnas.getString(1) + " " + columnas.getString(3));
       idsOrdenes.addLast(columnas.getString(1));
     }
   }catch(Exception ex){
     JOptionPane.showMessageDialog(null, ex);
   }
 //conecta con la base de datos
  public Connection connectaBD(){
   Connection cone=null;
   try{
     Class.forName("org.postgresql.Driver");
     cone=DriverManager.getConnection(url,USER,PASS);
   }catch(Exception ex){
     JOptionPane.showMessageDialog(null, ex);
   }
   return cone;
  // inserta un nuevo detalle orden
  public void inserta(){
    try{
    conexion=connectaBD(); // crea la conexión con la base de datos
    java.sql.Statement corrida=conexion.createStatement();
    // query para insertar en la tabla Operaciones.Detalle_Orden una nueva orden
    String\ Query="INSERT\ INTO\ Operaciones. Detalle\_Orden (Num\_Orden, Id\_Producto, Cantidad, SubTotal)"
t()+",NULL)";
    corrida.executeUpdate(Query);// ejecutar el query
    corrida.close();
    conexion.close();// cierra la conexión
    //JOptionPane.showMessageDialog(null, "INSERTO");
```

}catch(Exception ex){

```
JOptionPane.showMessageDialog(null,ex);
    }
  //elimina una orden
  public void elimina(){
    try{
     conexion=connectaBD();// crea la conexión con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     //query que elimina una tupla de la tabla Operaciones.Detalle_Orden
     String Query="DELETE FROM Operaciones.Detalle Orden WHERE
Num_Orden="+idsOrdenes.get(Ordenes.getSelectedIndex())+" AND "
         + "Id_Producto="+idsProductos.get(Productos.getSelectedIndex())+""
         + " AND Cantidad="+Cantidad.getText()+" AND SubTotal
= ""+DetallesOrden.getValueAt(DetallesOrden.getSelectedRow(),2).toString() + """;\\
     corrida.executeUpdate(Query);// ejecuta el query
     corrida.close();
     conexion.close(); // cierra la conexión
    }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  // modificar orden
  public void modifica(){
     try{
     conexion=connectaBD();// crea la conexión con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     //obitene los nuevos datos de los textfield
     String i=DetallesOrden.getValueAt(DetallesOrden.getSelectedRow(), 0).toString();
     String Ca=DetallesOrden.getValueAt(DetallesOrden.getSelectedRow(),1).toString();
     String\ id Producto = buscaProducto (NomProductos.get (Detalles Orden.get Selected Row ()));
     //query que actualiza la informacion en la tabla Operaciones.Detalle_Orden
     String Query="UPDATE Operaciones.Detalle_Orden SET"
"Num_Orden="+idsOrdenes.get(Ordenes.getSelectedIndex())+",Id_Producto="+idsProductos.get(Productos.getSelectedIndex())+",
Cantidad="+Cantidad.getText()+",SubTotal=NULL"
         + " WHERE Num_Orden="+i+" AND Cantidad="+Ca+" AND Id_Producto="+idProducto+"";
     corrida.executeUpdate(Query);// ejecuta el query
     corrida.close();
```

```
conexion.close();// cierra la conexión
    }catch(Exception ex){
    JOptionPane.showMessageDialog(null,ex);
  // muestra los detalles de las ordenes
 public void muestra(){
  try{
      conexion=connectaBD(); // crea la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     //query para obtener las ordenes creadas segun el Id del proveedor y se ordenan de forma ascendente
      String Query="SELECT D.Num_Orden,D.Cantidad,D.SubTotal,P.Nombre_Producto,P.Precio_Publico_Proveedor FROM
Articulo.Producto P,Operaciones.Detalle_Orden D "
          + "WHERE D.Id_Producto=P.Id_Producto ORDER BY D.Num_Orden ASC";
     String[]datos =new String[5];
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query); // ejecuta el query
      DefaultTableModel model=new DefaultTableModel();
     // crea las columnas en el jtable
      model.addColumn("Número De Orden");
      model.addColumn("Cantidad");
      model.addColumn("SubTotal");
      model.addColumn("Nombre Producto -Precio Proveedor Producto");
      DetallesOrden.setModel(model);
     //llena las columnas con los datos
      while(columnas.next()){
        datos[0]=columnas.getString(1);
        datos[1]=columnas.getString(2);
        datos[2]=columnas.getString(3);
        datos[3]=columnas.getString(4)+" - "+columnas.getString(5);
        NomProductos.add(columnas.getString(4));
        model.addRow(datos);
      }
     // obtiene los datos del renglón al hacer clic dentro del jtable
      DetallesOrden.addMouseListener(new MouseAdapter() {
      public void mousePressed(MouseEvent Mouse_evt){
        JTable table=(JTable) Mouse_evt.getSource();
```

```
Point point = Mouse_evt.getPoint();
      int row=table.rowAtPoint(point);
      if(Mouse_evt.getClickCount()==1){
      Cantidad.setText(DetallesOrden.getValueAt(DetallesOrden.getSelectedRow(), 1).toString()); \\
      String\ id\ = buscaProducto(NomProductos.get(DetallesOrden.getSelectedRow()));
      for (int i =0; i < idsProductos.size(); i++){
      if (ids Productos.get (i).equals (id)) \{\\
      Productos.setSelectedIndex(i);
        }
        }
      String valor2 = DetallesOrden.getValueAt(DetallesOrden.getSelectedRow(), 0).toString();
      for (int i =0; i < idsOrdenes.size(); i++){
      if (ids Ordenes.get (i).equals (valor 2)) \{\\
      Ordenes.setSelectedIndex(i);
        }
      }
    }
    });
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
\ensuremath{^{*}} 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() {
 jLabel1 = new javax.swing.JLabel();
```

} } /**

*/

```
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jScrollPane1 = new javax.swing.JScrollPane();
DetallesOrden = new javax.swing.JTable();
inserta = new javax.swing.JButton();
elimina = new javax.swing.JButton();
modifica = new javax.swing.JButton();
Productos = new javax.swing.JComboBox();
Ordenes = new javax.swing.JComboBox();
Cantidad = new javax.swing.JTextField();
set Default Close Operation (javax.swing. Window Constants. EXIT\_ON\_CLOSE); \\
setTitle("Detalle Orden");
jLabel1.setFont(new java.awt.Font("sansserif", 3, 14)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 0, 51));
jLabel1.setText("Detalle Orden");
jLabel2.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel2.setText("Producto");
jLabel3.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel3.setText("Orden");
jLabel4.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel4.setText("Cantidad");
Detalles Orden. set Model (new javax. swing. table. Default Table Model (new javax. swing. table.) \\
  new Object [][] {
  },
  new String [] {
    "Title 1", "Title 2", "Title 3", "Title 4"
  }
));
jScrollPane1.setViewportView(DetallesOrden);
```

```
inserta.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
inserta.setText("INSERTA");
inserta.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    insertaActionPerformed(evt);
 }
});
elimina.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
elimina.setText("ELIMINA");
elimina.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    eliminaActionPerformed(evt);
 }
});
modifica.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
modifica.setText("MODIFICA");
modifica.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    modificaActionPerformed(evt);
 }
});
Ordenes.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    OrdenesActionPerformed(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()
    . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
      .addGroup(layout.createSequentialGroup()
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
```

```
.addComponent(jLabel3))
                         .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                            .addGroup(layout.createSequentialGroup()
                                .addComponent(Cantidad, javax.swing.GroupLayout.PREFERRED_SIZE, 153,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 68, Short.MAX_VALUE)
                                .addComponent(elimina, javax.swing.GroupLayout.PREFERRED_SIZE, 94,
javax.swing.GroupLayout.PREFERRED_SIZE))
                            . add Group (layout.create Sequential Group ()\\
                                . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
                                     .addComponent(Productos, 0, 203, Short.MAX_VALUE)
                                     .addComponent(Ordenes, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                                .addGap(18, 18, 18)
                                . add Group (layout.create Parallel Group (javax.swing. Group Layout. Alignment. TRAILING) \\
                                     .addComponent(inserta, javax.swing.GroupLayout.PREFERRED_SIZE, 94,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                     .addComponent(modifica)))))
                    .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 94, javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(jLabel2)
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 1154,
javax.swing.GroupLayout.PREFERRED_SIZE))
                . add Container Gap (javax. swing. Group Layout. DEFAULT\_SIZE, Short. MAX\_VALUE))
        );
        layout.setVerticalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
             .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel1)
                . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                    .addComponent(jLabel2)
                    . add Component (Productos, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(inserta))
                .addGap(10, 10, 10)
                . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                    .addComponent(jLabel3)
                    .addComponent(Ordenes, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

.addComponent(jLabel4)

```
.addComponent(modifica))
                      . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                      . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                            .addComponent(jLabel4)
                            . add Component (Cantidad, javax. swing. Group Layout. PREFERRED\_SIZE, javax. swing. Group Layout. DEFAULT\_SIZE, javax. swing. Group Layout. Swing. Swing.
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(elimina))
                      . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                      .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 206,
javax.swing.GroupLayout.PREFERRED_SIZE)
                      . add Container Gap (javax. swing. Group Layout. DEFAULT\_SIZE, Short. MAX\_VALUE))
           );
           pack();
     }// </editor-fold>
     private void OrdenesActionPerformed(java.awt.event.ActionEvent evt) {
           // TODO add your handling code here:
     private\ void\ modifica Action Performed (java.awt.event. Action Event\ evt)\ \{
           // TODO add your handling code here:
           modifica();
           NomProductos.clear();
           muestra();
           Cantidad.setText("");
     private\ void\ elimina Action Performed (java.awt.event. Action Event\ evt)\ \{
           // TODO add your handling code here:
           elimina();
           NomProductos.clear();
           muestra();
           Cantidad.setText("");
     private void insertaActionPerformed(java.awt.event.ActionEvent evt) {
           // TODO add your handling code here:
           inserta();
```

```
muestra();
  Cantidad.setText("");
}
// Variables declaration - do not modify
private javax.swing.JTextField Cantidad;
private\ javax. swing. JTable\ Detalles Orden;
private\ javax. swing. JComboBox\ Ordenes;
private javax.swing.JComboBox Productos;
private\ javax. swing. JB utton\ elimina;
private javax.swing.JButton inserta;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JScrollPane jScrollPane1;
private\ javax. swing. JB utton\ modifica;
// End of variables declaration
```

NomProductos.clear();

Clase Devolucion_Carrito

```
/*
* 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 Operaciones;
import java.awt.Point;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.awt.event.WindowAdapter;
import java.awt.event.WindowEvent;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.LinkedList;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
vista donde se muestran las devoluciones de cada carrito y los productos a devolver
public class Devolucion_Carrito extends javax.swing.JFrame {
  private String HOST="localhost";//host
  private String PUERTO="5432";//puerto
  private String DB="ComprasEnLinea";//base de datos
  private String USER="postgres";//usuario
```

```
private String PASS="postgres";// contraseña
 public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url
 private Connection conexion=null;// variable para la base de datos
 public LinkedList<String> idsProductos=new LinkedList<>();
 public LinkedList<String> idsCarritos=new LinkedList<>();
 public String user;// usuario
 /**
 * Creates new form Devolucion_Carrito
 public Devolucion_Carrito(String U) {
   initComponents();
   muestra();
   this.set Default Close Operation (JF rame. DISPOSE\_ON\_CLOSE);
   cierra();
   fecha();
   carritos();
   productos();
   usuario(U);
   user=U;
 }
 public void usuario(String u){
   if(u.equals("pablo")){
     INSERTA.setEnabled(false);
     MODIFICA.setEnabled(false);
     ELIMINA.setEnabled(false);
   }
 // da formato a la fecha
public void fecha() {
 Calendar fechaActual = Calendar.getInstance();
 // Formatear la fecha actual a un formato de String
 SimpleDateFormat formatoFecha = new SimpleDateFormat("dd/MM/yyyy");
 String fechaFormateada = formatoFecha.format(fechaActual.getTime());
 fecha.setText(fechaFormateada);
// conexión con la base de datos
```

}

```
public Connection connectaBD(){
  Connection cone=null;
  try{
    Class.forName("org.postgresql.Driver");
    cone=DriverManager.getConnection(url,USER,PASS);
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
  return cone;
// cierra la vista
public void cierra(){
  this.addWindowListener(new WindowAdapter() {
    public void windowClosing(WindowEvent e) {
     Carrito_Venta d=new Carrito_Venta(user);
     d.setVisible(true);
    }
  });
//obtiene los carritos de la base de datos
public void carritos(){
  try{
    conexion=connectaBD();// crea la base de datos
    java.sql.Statement corrida=conexion.createStatement();
    // query que obtiene el nombre del cliente y el carrito relacionado al cliente
    String Query="SELECT C.Nombre_Cliente,O.Id_Carrito \n" +
    "FROM Operaciones.Carrito_Venta O,Usuario.Cliente C,Datos.Tarjeta_Cliente T \n" +
    "WHERE C.Id_Cliente=T.Id_Cliente AND T.Id_Tarjeta=O.Id_Tarjeta_Cliente AND O.Total_Carrito> '0'::money\n" +
    "ORDER BY O.Id_Carrito ASC";
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
    while(columnas.next()){
     Carritos.addItem(columnas.getString(2)+" "+columnas.getString(1));
     idsCarritos.addLast(columnas.getString(2));
    }
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
```

```
}
              //obtiene los productos de la base de datos
    public void productos(){
          Carritos.addActionListener(new ActionListener() {
               @Override
              public void actionPerformed(ActionEvent e) {
                   try{
              conexion=connectaBD();// crea la coenxion a la base de datos
              java.sql.Statement corrida=conexion.createStatement();
              Productos.removeAllItems();
              // obtiene los productos relacionados al carrito
              String Query="SELECT P.Nombre_Producto,P.Id_Producto,P.Precio_Publico_Producto FROM Articulo.Producto
P,Operaciones.Detalle_Carrito D"
                         + " WHERE D.Id_Carrito="+idsCarritos.get(Carritos.getSelectedIndex())+" AND "
                         + "P.Id_Producto=D.Id_Producto AND D.Cantidad>0 ORDER BY P.Id_Producto ASC";
              corrida=conexion.createStatement();
              ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
              while(columnas.next()){
                  Productos.addItem(columnas.getString(1)+" - "+columnas.getString(3));
                  ids Productos. add Last (columnas. get String (2));\\
              }
          }catch(Exception ex){
              JOptionPane.showMessageDialog(null, ex);
          }
                 }
          });
    //muestra segun el carrito los productos a devolver
    public void muestra(){
          try{
              conexion=connectaBD(); // crea la conexión a la base de datos
              java.sql.Statement corrida=conexion.createStatement();
              // query que obtiene el carrito y los datos del prodcuto relacionado al carrito
              String\ Query="SELECT\ O.Id\_Carrito,O.Cantidad\_Producto,O.Fecha,P.Nombre\_Producto,P.Precio\_Publico\_Producto\\ \ "+Carrito,O.Cantidad\_Producto,O.Fecha,P.Nombre\_Producto,P.Precio\_Publico\_Producto\\ \ "+Carrito,O.Cantidad\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Producto,O.Fecha,P.Nombre\_Product
               "FROM Operaciones.Devolucion_Carrito O,Articulo.Producto P\n" +
               "WHERE O.Id_Producto=P.Id_Producto";
```

```
String[]datos = new String[7];
corrida=conexion.createStatement();
ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
DefaultTableModel model=new DefaultTableModel();
//agrega las columnas al jtable
model.addColumn("Id Carrito");
model.addColumn("Cantidad");
model.addColumn("Fecha");
model.addColumn("Nombre Producto - Precio Público Producto");
// ingresa los datos al jtable
Devoluciones.setModel(model);
while(columnas.next()){
      datos[0]=columnas.getString(1);
      datos[1]=columnas.getString(2);
      datos[2]=columnas.getString(3);
      datos[3]=columnas.getString(4)+" - "+columnas.getString(5);
      model.addRow(datos);
}
// obtiene los datos del renglón al hacer clic dentro del jtable
Devoluciones.addMouseListener(new MouseAdapter() {
public void mousePressed(MouseEvent Mouse_evt){
      JTable table=(JTable) Mouse_evt.getSource();
      Point point = Mouse_evt.getPoint();
      int row=table.rowAtPoint(point);
      if(Mouse_evt.getClickCount()==1){
         for (int i =0; i < idsCarritos.size(); i++){
           if (ids Carritos.get (i). equals ((Devoluciones.get Value At (Devoluciones.get Selected Row (), 0). to String ()))) \{ (ids Carritos.get (ids Carritos.get Value At (Devoluciones.get Selected Row (), 0). to String ()))) \} \} (ids Carritos.get (ids Carritos.get Value At (Devoluciones.get Valu
           Carritos.setSelectedIndex(i);
           }
           }
         String valor = Devoluciones.getValueAt(Devoluciones.getSelectedRow(), 3).toString();
          String id = buscaProducto(valor);
          for (int i =0; i < idsProductos.size(); i++){
           if(idsProductos.get(i).equals(id)){
           Productos.setSelectedIndex(i);
          }
```

```
try{
           conexion=connectaBD(); // inicia conexion de la base de datos
          java.sql.Statement corrida;
          // obtiene la fecha de la devolucion segun el carrito
           String Query="SELECT to_char(Fecha,'yyyy/MM/dd') FROM Operaciones.Devolucion_Carrito WHERE
Id_Carrito="+((Devoluciones.getValueAt(Devoluciones.getSelectedRow(),0).toString()))+"";
           corrida=conexion.createStatement();
           ResultSet columnas=corrida.executeQuery(Query); // ejecuta el query
           while(columnas.next()){
           fecha.setText(columnas.getString(1));
           corrida.close();
           conexion.close(); // cierra la conexion
           }catch(Exception ex){
            JOptionPane.showMessageDialog(null, ex);
          }
          Cantidad.set Text (((Devoluciones.get Value At(Devoluciones.get Selected Row(), 1).to String()))); \\
      });
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    }
  }
  // busca el producto en la base de datos, recibiendo el nombre como parametro
  public String buscaProducto(String cadena){
    String Query1="";//variable para el query
     conexion=connectaBD(); //crea la conexion con la base de datos
     java.sql.Statement corrida;
     //query para obtener el producto con el nombre rebicido
      Query1="SELECT Id_Producto FROM Articulo.Producto WHERE Nombre_Producto=""+cadena+""";
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query1); //ejecuta el query
      while(columnas.next()){
        Query1=columnas.getString(1);
```

```
}
            corrida.close();
            conexion.close(); //cierra la conexion
       }catch(Exception ex){
         JOptionPane.showMessageDialog(null, ex);
       return Query1;
    // modifica la devolucion
     public void modifica(){
           try{
            conexion=connectaBD();//crea la conexion con la base de datos
            java.sql.Statement corrida=conexion.createStatement();
            // nuevos datos para la modificación
            String i=Devoluciones.getValueAt(Devoluciones.getSelectedRow(), 0).toString();
            String Ca=Devoluciones.getValueAt(Devoluciones.getSelectedRow(),1).toString();
            String valor = Devoluciones.getValueAt(Devoluciones.getSelectedRow(), 3).toString();
            String idProducto = buscaProducto(valor);
            String FechaBusca = Devoluciones.getValueAt(Devoluciones.getSelectedRow(),2).toString();
            //query para actualizar la tupla de la tabla Operaciones.Devolucion_Carrito
            String Query="UPDATE Operaciones.Devolucion_Carrito SET"
"Id\_Carrito="+idsCarritos.get(Carritos.getSelectedIndex())+", Id\_Producto="+idsProductos.get(Productos.getSelectedIndex())+", Canrito="+idsProductos.getSelectedIndex())+", Canrito="+idsProductos.getSelectedIndex(), Canrito="+idsProductos.
tidad_Producto="+Cantidad.getText()+",fecha=""+ fecha.getText()+"' "
                     + " WHERE Id_Carrito="+i+" AND Cantidad_Producto="+Ca+" AND Id_Producto="+idProducto+" AND
Fecha=""+FechaBusca+""";
            corrida.executeUpdate(Query);//ejecuta el query
            corrida.close();
            conexion.close(); //cierra la conexion
         }catch(Exception ex){
         JOptionPane.showMessageDialog(null,ex);
         }
     // inserta una nueva devolución
     public void inserta(){
          try{
            conexion=connectaBD(); // crea la conexion con la base de datos
           java.sql.Statement corrida=conexion.createStatement();
            // query para crear una nueva devolucion en la tabla Operaciones.Devolucion_Carrito
```

```
String Query="INSERT INTO Operaciones.Devolucion_Carrito(Id_Carrito,Fecha,Id_Producto,Cantidad_Producto)"
 "VALUES("+idsCarritos.get(Carritos.getSelectedIndex())+","+fecha.getText()+"","+idsProductos.get(Productos.getSelectedIndex())+","+fecha.getText()+"","+idsProductos.get(Productos.getSelectedIndex())+","+fecha.getText()+"","+idsProductos.get(Productos.getSelectedIndex())+","+fecha.getText()+"","+idsProductos.get(Productos.getSelectedIndex())+","+fecha.getText()+"","+idsProductos.get(Productos.getSelectedIndex())+","+fecha.getText()+"","+idsProductos.get(Productos.getSelectedIndex())+","+fecha.getText()+"","+idsProductos.get(Productos.getSelectedIndex())+","+fecha.getText()+"","+idsProductos.get(Productos.getSelectedIndex())+","+fecha.getText()+"","+idsProductos.get(Productos.getSelectedIndex())+","+idsProductos.get(Productos.getSelectedIndex())+","+idsProductos.get(Productos.getSelectedIndex())+","+idsProductos.get(Productos.getSelectedIndex())+","+idsProductos.get(Productos.getSelectedIndex())+","+idsProductos.get(Productos.getSelectedIndex())+","+idsProductos.get(Productos.getSelectedIndex())+","+idsProductos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Productos.get(Produc
","+Cantidad.getText()+")";
            corrida.executeUpdate(Query); //ejecuta el query
            corrida.close();
            conexion.close(); //cirerra la conexion
          }catch(Exception ex){
          JOptionPane.showMessageDialog(null,"No tienes tantos productos");
          }
      //elimina una devolucion
      public void elimina(){
           try{
            conexion=connectaBD(); // conexion con la base de datos
           java.sql.Statement corrida=conexion.createStatement();
            // elimina de la tabla Operaciones.Devolucion_Carrito, la devolucion seleccionada
            String Query="DELETE FROM Operaciones.Devolucion_Carrito WHERE
Id_Carrito="+idsCarritos.get(Carritos.getSelectedIndex())+" AND "
                      + "Id_Producto="+idsProductos.get(Productos.getSelectedIndex())+" "
                      + "AND Cantidad_Producto="+Cantidad.getText()+"";
            corrida.executeUpdate(Query); //ejecuta el query
            corrida.close();
            conexion.close(); // cierra la conexion
          }catch(Exception ex){
           JOptionPane.showMessageDialog(null, ex);
          }
      * 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() {
         jLabel5 = new javax.swing.JLabel();
          jLabel1 = new javax.swing.JLabel();
```

```
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
Carritos = new javax.swing.JComboBox();
Productos = new javax.swing.JComboBox();
Cantidad = new javax.swing.JTextField();
MODIFICA = new javax.swing.JButton();
ELIMINA = new javax.swing.JButton();
INSERTA = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
Devoluciones = new javax.swing.JTable();
fecha = new javax.swing.JLabel();
jLabel5.setText("jLabel5");
setDefaultCloseOperation (javax.swing.WindowConstants.EXIT\_ON\_CLOSE);
setTitle("Devolución Carrito");
jLabel1.setFont(new java.awt.Font("sansserif", 3, 14)); // NOI18N
jLabel1.setForeground(new java.awt.Color(255, 51, 255));
jLabel1.setText("Devolución Carrito");
jLabel2.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel2.setText("Carrito");
jLabel3.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel3.setText("Producto");
jLabel4.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel4.setText("Cantidad");
jLabel6.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
jLabel6.setText("Fecha");
Carritos. add Action Listener (new java.awt.event. Action Listener () \ \{
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    CarritosActionPerformed(evt);
```

```
}
});
MODIFICA.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
MODIFICA.setText("MODIFICA");
MODIFICA.addActionListener(new java.awt.event.ActionListener() {
     public void actionPerformed(java.awt.event.ActionEvent evt) {
           MODIFICAActionPerformed(evt);
    }
});
ELIMINA.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
ELIMINA.setText("ELIMINA");
ELIMINA.addActionListener(new java.awt.event.ActionListener() {
     public void actionPerformed(java.awt.event.ActionEvent evt) {
            ELIMINAActionPerformed(evt);
    }
});
INSERTA.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
INSERTA.setText("INSERTA");
INSERTA.addActionListener(new java.awt.event.ActionListener() {
     public\ void\ action Performed (java.awt.event. Action Event\ evt)\ \{
            INSERTAActionPerformed(evt);
    }
});
Devoluciones.set Model (new javax.swing.table.Default Table (new j
     new Object [][] {
    },
     new String [] {
            "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
jScrollPane1.setViewportView(Devoluciones);
fecha.setFont(new java.awt.Font("sansserif", 0, 14)); // NOI18N
```

```
fecha.setText("Fecha");
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
       .addGroup(layout.createSequentialGroup()
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
           .addComponent(jLabel1)
           . add Group (layout.create Sequential Group ()\\
             .addGap(19, 19, 19)
             . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING, false) \\
               .addGroup(layout.createSequentialGroup()
                 .addComponent(jLabel3)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                 . add Component (Productos, \, 0, \, javax. swing. Group Layout. DEFAULT\_SIZE, \, Short. MAX\_VALUE))
               .addGroup(layout.createSequentialGroup()
                 .addComponent(jLabel4)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                 .addComponent(Cantidad, javax.swing.GroupLayout.PREFERRED_SIZE, 67,
javax.swing.GroupLayout.PREFERRED_SIZE))
               .addGroup(layout.createSequentialGroup()
                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
                    .addComponent(jLabel6)
                    .addComponent(jLabel2))
                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
                    .addGroup(layout.createSequentialGroup()
                      .addGap(24, 24, 24)
                      .addComponent(fecha))
                    .addGroup(layout.createSequentialGroup()
                      .addGap(25, 25, 25)
                      .addComponent(Carritos, javax.swing.GroupLayout.PREFERRED_SIZE, 202,
javax.swing.GroupLayout.PREFERRED\_SIZE)))))
             .addGap(24, 24, 24)
             .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
               .addComponent(INSERTA, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX VALUE)
               . add Component (MODIFICA, javax.swing. Group Layout. DEFAULT\_SIZE, 119, Short. MAX\_VALUE)
```

```
.addComponent(ELIMINA, javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
 Short.MAX_VALUE))))
                                   .addGap(0, 414, Short.MAX_VALUE))
                            .addGroup(layout.createSequentialGroup()
                                   .addContainerGap()
                                   .addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 845, Short.MAX_VALUE)
                                   .addContainerGap())
                  );
                  layout.setVerticalGroup(
                          layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
                           .addGroup(layout.createSequentialGroup()
                                   .addComponent(jLabel1)
                                   . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                   . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                            .addGroup(layout.createSequentialGroup()
                                                    . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                                             .addComponent(jLabel2)
                                                             . add Component (Carritos, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.
javax.swing.GroupLayout.PREFERRED_SIZE))
                                                     . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                                                     . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                                             .addComponent(jLabel3)
                                                             . add Component (Productos, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax
javax.swing.GroupLayout.PREFERRED\_SIZE)
                                                             .addComponent(MODIFICA))
                                                      .addGap(8, 8, 8)
                                                     .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                                                             .addComponent(jLabel4)
                                                             . add Component (Cantidad, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.
javax.swing.GroupLayout.PREFERRED_SIZE)
                                                             .addComponent(ELIMINA))
                                                     . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                                     . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                                             .addComponent(jLabel6)
                                                             .addComponent(fecha)))
                                            .addComponent(INSERTA))
                                   .addGap(10, 10, 10)
                                   .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 309,
javax.swing.GroupLayout.PREFERRED_SIZE))
                  );
```

```
pack();
}// </editor-fold>
private\ void\ INSERTAActionPerformed (java.awt.event.ActionEvent\ evt)\ \{
  // TODO add your handling code here:
  inserta();
  muestra();
  Productos.removeAllItems();
}
private void MODIFICAActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  modifica();
  muestra();
  Productos.removeAllItems();
}
private\ void\ ELIMINAActionPerformed (java.awt.event.ActionEvent\ evt)\ \{
  // TODO add your handling code here:
  elimina();
  muestra();
  Productos.removeAllItems();
}
private void CarritosActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
// Variables declaration - do not modify
private javax.swing.JTextField Cantidad;
private javax.swing.JComboBox Carritos;
private\ javax. swing. JTable\ Devoluciones;
private javax.swing.JButton ELIMINA;
private javax.swing.JButton INSERTA;
```

```
private javax.swing.JButton MODIFICA;
private javax.swing.JComboBox Productos;
private javax.swing.JLabel fecha;
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.JScrollPane jScrollPane1;
// End of variables declaration
}
```

Clase Orden

/* * 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 Operaciones; import Usuario.Cliente; import java.sql.Connection; import java.awt.Point; import java.awt.event.MouseAdapter; import java.awt.event.MouseEvent; import java.sql.Connection; import java.sql.DriverManager; import java.sql.ResultSet; import java.sql.SQLException; import java.util.LinkedList; import java.util.logging.Level; import java.util.logging.Logger; import javax.swing.ComboBoxModel; import javax.swing.JComboBox; import javax.swing.JOptionPane; import javax.swing.JTable; import javax.swing.JTextField; $import\ javax. swing. table. Default Table Model;$ import Menu.Menu; import java.util.Calendar; import java.util.regex.Matcher; import java.util.regex.Pattern; import javax.swing.JFrame; vista donde se muestran las ordenes creadas */ $public\ class\ Orden\ extends\ javax.swing.JFrame\ \{$ private String HOST="localhost"; //host

private String PUERTO="5432";//puerto

```
private String DB="ComprasEnLinea";//base de datos
private String USER="postgres";//usuario
private String PASS="postgres";// contraseña
public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url
private Connection conexion=null;// variable para la base de datos
public String id; // id de la orden
public String numeros; // numero de la orden
public LinkedList<String> ids=new LinkedList<>();
public LinkedList<String> fechas=new LinkedList<>();
public LinkedList<String> correos=new LinkedList<>();
public String user; // usuario
/**
* Creates new form Orden
*/
public Orden(String U) {
  initComponents();
  proveedor();
  muestra();
  fecha();
  usuario(U);
  this.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
  user=U;
}
public void usuario(String u){
  if(u.equals("pablo")){
    inserta.setEnabled(false);
    modifica.setEnabled(false);
    elimina.setEnabled(false);
  }
// da formato y muestra el calendario en la vista
public void fecha(){
  Calendar fechaActual = Calendar.getInstance();
  fecha.setSelectableDateRange(fechaActual.getTime(),null);
// obtiene los proveedores
public void proveedor(){
  try{
```

```
conexion=connectaBD(); // crea la conexion con la base de datos
      java.sql.Statement corrida=conexion.createStatement();
      // obitene los datos de los proveedores
      String Query="SELECT Nombre_Provedoor,Id_Proveedor,Correo_Electronico FROM Usuario.Proveedor ORDER BY
Id_Proveedor ASC";
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
      //llena los campos con la informacion del proveedor
      while(columnas.next()){
       provedores. add Item (columnas.get String (1) + "-" + columnas.get String (3)); \\
       ids.addLast(columnas.getString(2));
      }
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    }
  //conecta con la base de datos
  public Connection connectaBD(){
    Connection cone=null;
    try{
      Class.forName("org.postgresql.Driver");
      cone=Driver Manager.get Connection (url, USER, PASS);\\
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    return cone;
 }
  // muestra las ordenes
  public void muestra(){
    try{
      conexion=connectaBD(); // crea la conexion con la base de datos
      java.sql.Statement corrida=conexion.createStatement();
      // muestra los datos de la orden y del proveedor
      String Query="SELECT D.Num_Orden,D.Fecha_Orden,D.Total,P.Nombre_Provedoor,P.Correo_Electronico FROM
Operaciones.Orden D,Usuario.Proveedor P WHERE D.Id_Proveedor=P.Id_Proveedor ORDER BY D.Num_Orden ASC";
      String[]datos =new String[5];
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
```

```
DefaultTableModel model=new DefaultTableModel();
// crea las columnas del jtable
model.addColumn("Número De Orden");
model.addColumn("Fecha De Orden");
model.addColumn("Total");
model.addColumn("Nombre Proveedor - Correo Electrónico");
//Ilena las columnas con los datos de la orden
Ordenes.setModel(model);
 while(columnas.next()){
   datos[0]=columnas.getString(1);
   datos[1]=columnas.getString(2);
   datos[2]=columnas.getString(3);
   datos [3] = columnas.getString (4) + "-" + columnas.getString (5); \\
   correos.add(columnas.getString(5));
   model.addRow(datos);
}
// obtiene los datos del renglón al hacer clic dentro del jtable
Ordenes.addMouseListener(new MouseAdapter() {
public void mousePressed(MouseEvent Mouse_evt){
   JTable table=(JTable) Mouse_evt.getSource();
   Point point = Mouse_evt.getPoint();
   int row=table.rowAtPoint(point);
   if(Mouse\_evt.getClickCount()==1)\{\\
     // busqueda de los correos
     id=busqueda(correos.get(Ordenes.getSelectedRow()));
     for (int i =0; i < ids.size(); i++){
     if(ids.get(i).equals(id)){
       provedores.setSelectedIndex(i);
     // id de las ordenes
     id=Ordenes.getValueAt(Ordenes.getSelectedRow(), 0).toString();
     total.set Text (Ordenes.get Value At (Ordenes.get Selected Row (),\ 2).to String ());
     try{
     conexion=connectaBD(); // crea una conexion con la base de datos
     java.sql.Statement corrida;
     // obitene la fecha de la creacion de la orden
     String Query="SELECT to_char(Fecha_Orden,'yyyy/MM/dd') FROM Operaciones.Orden WHERE Num_Orden=""+id+""";
```

```
corrida=conexion.createStatement();
        ResultSet columnas=corrida.executeQuery(Query); //ejeucta el query
        while(columnas.next()){
        ((JTextField) fecha.getDateEditor().getUiComponent()).setText(columnas.getString(1));\\
        }
        corrida.close();
        conexion.close(); //cierra la conexion
        }catch(Exception ex){
          JOptionPane.showMessageDialog(null, ex);
        }
      }
    }
    });
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
}
// busca el proveedor segun el correo que recibe como parametro
public String busqueda(String cadena){
  String Query1="";
   conexion=connectaBD(); // conexion a la base de datos
   java.sql.Statement corrida;
   // obitene el proveedor relacionado al correo
   Query1="SELECT Id_Proveedor FROM Usuario.Proveedor WHERE Correo_Electronico=""+cadena+""";
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query1); //ejecuta el query
    while(columnas.next()){
      Query1=columnas.getString(1);
     }
   corrida.close();
   conexion.close(); //cierra la conexion
 }catch(Exception ex){
  JOptionPane.showMessageDialog(null, ex);
}
 return Query1;
}
```

```
// inserta una nueva orden
     public void inserta(){
             try{
             conexion=connectaBD();// crea la conexión con la base de datos
             java.sql.Statement corrida=conexion.createStatement();
             Pattern patron = Pattern.compile("\\d+");
             Matcher matcher = patron.matcher(total.getText());
             String num="";
             while (matcher.find()) {
               num = matcher.group();
             //inserta nueva orden en la tabla Operaciones.Orden
             String Query="INSERT INTO Operaciones.Orden(Id_Proveedor,Fecha_Orden,Total)"
"VALUES("+ids.get(provedores.getSelectedIndex())+"',"+(((JTextField)fecha.getDateEditor().getUiComponent()).getText())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getDateEditor().getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent())+"',"+nu((JTextField)fecha.getUiComponent()+"',"+nu((JTextField)fecha.getUiComponent()
m+")";
             corrida.executeUpdate(Query); //ejecuta el query
             corrida.close();
             conexion.close(); //cierra la conexion
           }catch(Exception ex){
           JOptionPane.showMessageDialog(null, ex);
           }
     //elimina una orden
     public void elimina(){
           try{
             conexion=connectaBD();// crea la conexión con la base de datos
            java.sql.Statement corrida=conexion.createStatement();
             // query que elimina una orden seleccionada
             String Query="DELETE FROM Operaciones.Orden WHERE Num_Orden="+Ordenes.getValueAt(Ordenes.getSelectedRow(),
0).toString()+" ";
             corrida.executeUpdate(Query); //ejecuta el query
             corrida.close();
             conexion.close(); //cierra la conexion
           }catch(Exception ex){
            JOptionPane.showMessageDialog(null, ex);
           }
     //modifica la tupla en la base de datos
```

```
public void modifica(){
          try{
            conexion=connectaBD(); // crea la conexión con la base de datos
           java.sql.Statement corrida=conexion.createStatement();
            //query que actualiza la orden con los nuevos datos de los textfield
              String Query="UPDATE Operaciones.Orden SET"
                      + "Id_Proveedor= "+ids.get(provedores.getSelectedIndex())+" ,
Fecha\_Orden='''+(((JTextField)fecha.getDateEditor().getUiComponent()).getText())+''', Total=(ICOMPONENT) + ICOMPONENT + 
 ""+Ordenes.getValueAt(Ordenes.getSelectedRow(), 2).toString()+"" "
                         + "WHERE Num_Orden="+Ordenes.getValueAt(Ordenes.getSelectedRow(), 0).toString()+"";
            corrida.executeUpdate(Query); // ejecuta el query
            corrida.close();
            conexion.close();// cierra la conexion
          }catch(Exception ex){
          JOptionPane.showMessageDialog(null, ex);
          }
      * 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() {
          inserta = new javax.swing.JButton();
          elimina = new javax.swing.JButton();
          modifica = new javax.swing.JButton();
          Detalle = new javax.swing.JButton();
          jLabel1 = new javax.swing.JLabel();
          jLabel2 = new javax.swing.JLabel();
          jLabel3 = new javax.swing.JLabel();
          jLabel4 = new javax.swing.JLabel();
          fecha = new com.toedter.calendar.JDateChooser();
          total = new javax.swing.JLabel();
          provedores = new javax.swing.JComboBox();
          jScrollPane1 = new javax.swing.JScrollPane();
          Ordenes = new javax.swing.JTable();
```

```
setDefaultCloseOperation (javax.swing.WindowConstants.EXIT\_ON\_CLOSE); \\
setTitle("Orden");
inserta.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
inserta.setText("INSERTA");
inserta.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    insertaActionPerformed(evt);
 }
});
elimina.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
elimina.setText("ELIMINA");
elimina.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    eliminaActionPerformed(evt);
 }
});
modifica.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
modifica.setText("MODIFICA");
modifica.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    modificaActionPerformed(evt);
 }
});
Detalle.setFont(new java.awt.Font("sansserif", 2, 14)); // NOI18N
Detalle.setForeground(new java.awt.Color(255, 102, 0));
Detalle.setText("DETALLE ORDEN");
Detalle.addActionListener(new java.awt.event.ActionListener() {
 public void actionPerformed(java.awt.event.ActionEvent evt) {
    DetalleActionPerformed(evt);
 }
});
```

jLabel1.setFont(new java.awt.Font("sansserif", 3, 14)); // NOI18N

```
jLabel1.setText("Orden");
            jLabel2.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
           jLabel2.setText("Fecha De Orden");
            jLabel3.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
            jLabel3.setText("Total");
            jLabel4.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
           jLabel4.setText("Proveedor");
            total.setFont(new java.awt.Font("sansserif", 1, 18)); // NOI18N
            total.setForeground(new java.awt.Color(255, 0, 0));
            total.setText("$0.00");
            Ordenes.set Model (new javax.swing.table.Default Table Model (\\
                 new Object [][] {
                },
                new String [] {
                       "Title 1", "Title 2", "Title 3", "Title 4"
                }
            ));
            jScrollPane1.setViewportView(Ordenes);
            javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
            getContentPane().setLayout(layout);
            layout.setHorizontalGroup(
                layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
                 . add Group (layout.create Sequential Group ()\\
                       .addContainerGap()
                       . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                            . add Component (jScroll Pane 1, javax. swing. Group Layout. PREFERRED\_SIZE, 996, in the property of the pro
javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGroup(layout.createSequentialGroup()
                                  . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
                                       .addComponent(jLabel1)
                                       . add Group (layout.create Sequential Group ()\\
```

```
.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 122,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(17, 17, 17)
                .addComponent(total))
              .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel2)
                . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                javax.swing.GroupLayout.PREFERRED_SIZE))
              .addGroup(layout.createSequentialGroup()
                .addComponent(jLabel4)
                . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                .addComponent(provedores, javax.swing.GroupLayout.PREFERRED_SIZE, 259,
javax.swing.GroupLayout.PREFERRED SIZE)))
            . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
            . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
              .addComponent(inserta, javax.swing.GroupLayout.PREFERRED_SIZE, 113,
javax.swing.GroupLayout.PREFERRED_SIZE)
              . add Group (layout.create Sequential Group ()\\
                .addComponent(modifica)
                .addGap(18, 18, 18)
                .addComponent(Detalle, javax.swing.GroupLayout.PREFERRED_SIZE, 160,
javax.swing.GroupLayout.PREFERRED_SIZE))
              . add Component (elimina, javax. swing. Group Layout. PREFERRED\_SIZE, 113,
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()
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
          .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(inserta)
            . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
            .addComponent(elimina)
             .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
              .addComponent(modifica)
              .addComponent(Detalle)))
```

```
.addGroup(layout.createSequentialGroup()
                                                                .addComponent(jLabel1)
                                                                . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                                                . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                                                         .addComponent(jLabel2)
                                                                         . add Component (fecha, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.swi
javax.swing.GroupLayout.PREFERRED_SIZE))
                                                                . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                                                                . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
                                                                         . add Component (total, javax. swing. Group Layout. Alignment. TRAILING) \\
                                                                         .addComponent(jLabel3))
                                                                .addGap(18, 18, 18)
                                                                . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                                                         .addComponent(jLabel4)
                                                                         . add Component (proved or es, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, ja
javax.swing.GroupLayout.PREFERRED_SIZE))))
                                          . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                          . add Component (jS croll Pane 1, javax. swing. Group Layout. PREFERRED\_SIZE, 315, in the context of the cont
javax.swing.GroupLayout.PREFERRED\_SIZE)
                                          .addContainerGap(38, Short.MAX_VALUE))
                     );
                     pack();
          }// </editor-fold>
          private void insertaActionPerformed(java.awt.event.ActionEvent evt) {
                     // TODO add your handling code here:
                     inserta();
                     correos.clear();
                     muestra();
                     total.setText("$0.00");
         }
          private void DetalleActionPerformed(java.awt.event.ActionEvent evt) {
                     // TODO add your handling code here:
                     Detalle_Orden d=new Detalle_Orden(user);
                     d.setVisible(true);
                     this.setVisible(false);
```

```
private void eliminaActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  elimina();
  correos.clear();
  muestra();
  total.setText("$0.00");
private\ void\ modifica Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  modifica();
  correos.clear();
  muestra();
  total.setText("$0.00");
// Variables declaration - do not modify
private javax.swing.JButton Detalle;
private javax.swing.JTable Ordenes;
private javax.swing.JButton elimina;
private com.toedter.calendar.JDateChooser fecha;
private javax.swing.JButton inserta;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JScrollPane jScrollPane1;
private\ javax. swing. JB utton\ modifica;
private javax.swing.JComboBox provedores;
private javax.swing.JLabel total;
// End of variables declaration
```

}

Clase Reporte1

```
/*
* 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 Reportes;
import java.awt.Point;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.util.LinkedList;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
vista de los reportes de los proveedores, mostrando las ordenes del proveedor
public class Reporte1 extends javax.swing.JFrame {
  private String HOST="localhost"; //host
  private String PUERTO="5432";//puerto
  private String DB="ComprasEnLinea";//base de datos
  private String USER="postgres";//usuario
  private String PASS="postgres";// contraseña
  public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url
  private Connection conexion=null;// variable para la base de datos
  public LinkedList<String> ids=new LinkedList<>();
  /**
  * Creates new form Reporte1
  public Reporte1() {
    initComponents();
```

```
proveedor();
    this.setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);
    DefaultTableModel model=new DefaultTableModel();
      model.addColumn("Número De Ordenes");
      model.addColumn("Proveedor");
      carritos.setModel(model);
 }
 // obtiene los proveedores
  public void proveedor(){
    try{
      conexion=connectaBD();// crea la conexion con la base de datos
      java.sql.Statement corrida=conexion.createStatement();
      // obitene los datos de los proveedores
      String Query="SELECT Nombre_Provedoor,Id_Proveedor,Correo_Electronico FROM Usuario.Proveedor ORDER BY
Id_Proveedor ASC";
      corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query);//ejecuta el query
      while(columnas.next()){
        //llena los campos con la informacion del proveedor
       proveedor.addItem(columnas.getString(1)+" - "+columnas.getString(3));
       ids.addLast(columnas.getString(2));
      }
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    }
  // realiza la conexion con la base de datos
  public Connection connectaBD(){
    Connection cone=null;
    try{
      Class.forName("org.postgresql.Driver");
      cone=Driver Manager.get Connection (url, USER, PASS);\\
    }catch(Exception ex){
      JOptionPane.showMessageDialog(null, ex);
    }
    return cone;
```

```
// muestra los reportes
 public void muestra(){
    try{
      conexion=connectaBD();// crea la conexion con la base de datos
     java.sql.Statement corrida=conexion.createStatement();
     // muestra cuantas ordenes tiene el proveedor asi como su nombre
     String Query="SELECT COUNT(O.Num_Orden), P.Nombre_Provedoor\n" +
            "FROM Operaciones.Orden O\n" +
            "INNER JOIN Usuario.Proveedor P ON O.Id_Proveedor = P.Id_Proveedor AND P.Id_Proveedor
="+ids.get(proveedor.getSelectedIndex())+" \n" +
            "GROUP BY P.Nombre_Provedoor;";
     String[]datos =new String[5];
     corrida=conexion.createStatement();
      ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
     DefaultTableModel model=new DefaultTableModel();
     // crea las columnas del jtable
      model.addColumn("Número De Órdenes");
      model.addColumn("Proveedor");
     carritos.setModel(model);
     //agrega la informacion al jtable
      while(columnas.next()){
        datos[0]=columnas.getString(1);
        datos[1]=columnas.getString(2);
        model.addRow(datos);
     }
    }catch(Exception ex){
     JOptionPane.showMessageDialog(null, ex);
   }
  \ensuremath{^{*}} 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() {
  proveedor = new javax.swing.JComboBox();
  jLabel2 = new javax.swing.JLabel();
  jButton1 = new javax.swing.JButton();
  jScrollPane1 = new javax.swing.JScrollPane();
  carritos = new javax.swing.JTable();
  jLabel1 = new javax.swing.JLabel();
  set Default Close Operation (javax.swing. Window Constants. EXIT\_ON\_CLOSE); \\
  setTitle("Reporte 1");
  jLabel2.setFont(new java.awt.Font("sansserif", 2, 14)); // NOI18N
  jLabel2.setText("Muestra el número de órdenes que se le han pedido a un proveedor, seleccionando al proveedor");
  jButton1.setText("Buscar");
  jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
      jButton1ActionPerformed(evt);
   }
  });
  carritos. set Model (new\ javax. swing. table. Default Table Model (
    new Object [][] {
    },
    new String [] {
      "Title 1", "Title 2", "Title 3", "Title 4"
    }
  ));
  jScrollPane1.setViewportView(carritos);
  jLabel1.setFont(new java.awt.Font("Arial Rounded MT Bold", 1, 12)); // NOI18N
  jLabel1.setText("Seleccione un Proveedor:");
  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
  getContentPane().setLayout(layout);
  layout.setHorizontalGroup(
```

```
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(jScrollPane1, javax.swing.GroupLayout.DEFAULT_SIZE, 631, Short.MAX_VALUE)
                      . add Component (j Label 2, javax. swing. Group Layout. DEFAULT\_SIZE, 631, Short. MAX\_VALUE)
                      . add Group (layout.create Sequential Group ()\\
                          . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                               .addGroup(layout.createSequentialGroup()
                                   .addContainerGap()
                                   . add Component (proveed or, javax.swing. Group Layout. PREFERRED\_SIZE, 359, and the provided of the provide
javax.swing.GroupLayout.PREFERRED_SIZE)
                                   . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                   .addComponent(jButton1))
                               .addComponent(jLabel1))
                          .addGap(0, 0, Short.MAX_VALUE)))
                 .addContainerGap())
         );
         layout.setVerticalGroup(
             layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
              .addGroup(layout.createSequentialGroup()
                 . add Component (jLabel 2, javax.swing. Group Layout. PREFERRED\_SIZE, 50, javax.swing. Group Layout. PREFERRED\_SIZE)
                 .addGap(8, 8, 8)
                 . add Component (jLabel 1, javax. swing. Group Layout. PREFERRED\_SIZE, 21, javax. swing. Group Layout. PREFERRED\_SIZE)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                      .addComponent(proveedor, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                      .addComponent(jButton1))
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                 .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 219,
javax.swing. Group Layout. PREFERRED\_SIZE)
                 .addGap(0, 20, Short.MAX_VALUE))
         );
         pack();
    }// </editor-fold>
    private\ void\ jButton 1 Action Performed (java.awt.event. Action Event\ evt)\ \{
         // TODO add your handling code here:
```

```
muestra();

// Variables declaration - do not modify
private javax.swing.JTable carritos;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JComboBox proveedor;
// End of variables declaration
}
```

Clase Reporte2

```
/*
* 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 Reportes;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.util.LinkedList;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import\ javax. swing. table. Default Table Model;
vista de los reportes de los clientes mostrando sus telefonos
public class Reporte2 extends javax.swing.JFrame {
  private String HOST="localhost"; //host
  private String PUERTO="5432";//puerto
  private String DB="ComprasEnLinea";//base de datos
  private String USER="postgres";//usuario
  private String PASS="postgres";// contraseña
  public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url
  private Connection conexion=null;// variable para la base de datos
  public LinkedList<String> ids=new LinkedList<>();
  * Creates new form Reporte2
  public Reporte2() {
    initComponents();
    clientes();
     DefaultTableModel model=new DefaultTableModel();
      model.addColumn("Número ");
      carritos.setModel(model);
```

```
this.setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);
// obtiene los clientes
public void clientes(){
  try{
    conexion=connectaBD();// crea la conexion con la base de datos
    java.sql.Statement corrida=conexion.createStatement();
    // query que obitene los datos de los clientes y los ordena de forma ascendente
    String Query="SELECT Nombre_Cliente,Id_Cliente,Correo_Electronico FROM Usuario.Cliente ORDER BY Id_Cliente ASC";
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
    // llena los campos con la información
    while(columnas.next()){
     Clientes.addltem(columnas.getString(1)+" - "+columnas.getString(3));
     ids.addLast(columnas.getString(2));
    }
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
//crea la conexión con la base de datos
public Connection connectaBD(){
  Connection cone=null;
  try{
    Class.forName("org.postgresql.Driver");
    cone=DriverManager.getConnection(url,USER,PASS);
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
  return cone;
// muestra los reportes
public void muestra(){
  try{
    conexion=connectaBD();// crea la conexion con la base de datos
    java.sql.Statement corrida=conexion.createStatement();
    // query que muestra los telefones del cliente seleccionado
```

```
"FROM Datos.Telefono_Cliente N\n" +
    "WHERE N.Id_Cliente IN (SELECT C.Id_Cliente FROM Usuario.Cliente C)"
        + " AND N.Id_Cliente="+ids.get(Clientes.getSelectedIndex())+";";
    String[]datos =new String[5];
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
    DefaultTableModel model=new DefaultTableModel();
    //agrega la columna al jtable
    model.addColumn("Número ");
    carritos.setModel(model);
    // rellena el jtable con la informacion
    while(columnas.next()){
      datos[0]=columnas.getString(1);
      model.addRow(datos);
    }
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
* 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() {
  busca = new javax.swing.JButton();
  Clientes = new javax.swing.JComboBox();
  jScrollPane1 = new javax.swing.JScrollPane();
  carritos = new javax.swing.JTable();
  jLabel1 = new javax.swing.JLabel();
  jLabel2 = new javax.swing.JLabel();
```

}

String Query="SELECT N.Numero\n" +

```
setDefaultCloseOperation (javax.swing.WindowConstants.EXIT\_ON\_CLOSE); \\
    setTitle("Reporte 2");
    busca.setText("Buscar");
    busca.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        buscaActionPerformed(evt);
      }
    });
    carritos.setModel(new javax.swing.table.DefaultTableModel(
      new Object [][] {
      },
      new String [] {
         "Title 1", "Title 2", "Title 3", "Title 4"
      }
    ));
    jScrollPane1.setViewportView(carritos);
    jLabel1.setFont(new java.awt.Font("sansserif", 2, 14)); // NOI18N
    jLabel1.setText("Muestra los números de teléfono de un cliente seleccionado");
    jLabel2.setFont(new java.awt.Font("Arial Black", 1, 12)); // NOI18N
    jLabel2.setText("Seleccione un cliente:");
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
      . add Group (layout.create Sequential Group ()\\
         .addComponent(jLabel1)
         .addGap(0, 0, Short.MAX_VALUE))
       .addGroup(layout.createSequentialGroup()
         .addContainerGap()
         . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
           .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 566,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
.addGroup(layout.createSequentialGroup()
                               .addComponent(Clientes, javax.swing.GroupLayout.PREFERRED_SIZE, 337,
javax.swing. Group Layout. PREFERRED\_SIZE)
                               . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                               .addComponent(busca))
                          .addComponent(jLabel2))
                     . add Container Gap (javax. swing. Group Layout. DEFAULT\_SIZE, Short. MAX\_VALUE))
          );
          layout.setVerticalGroup(
               layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
               . add Group (layout.create Sequential Group ()\\
                     .addContainerGap()
                     .addComponent(jLabel1)
                     .addGap(33, 33, 33)
                     .addComponent(jLabel2)
                     . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                     . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                          . add Component (Clientes, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.
javax.swing.GroupLayout.PREFERRED_SIZE)
                          .addComponent(busca))
                     .addGap(18, 18, 18)
                     .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 266,
javax.swing.GroupLayout.PREFERRED_SIZE)
                     . add Container Gap (javax. swing. Group Layout. DEFAULT\_SIZE, Short. MAX\_VALUE))
          );
          pack();
     }// </editor-fold>
     private void buscaActionPerformed(java.awt.event.ActionEvent evt) {
          // TODO add your handling code here:
          muestra();
     // Variables declaration - do not modify
     private javax.swing.JComboBox Clientes;
     private javax.swing.JButton busca;
     private javax.swing.JTable carritos;
```

```
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JScrollPane jScrollPane1;
// End of variables declaration
}
```

Clase Cmabio_Usuario

```
/*
* 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 Usuario;
import Menu.Menu;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.JOptionPane;
clase para el inicio de sesion
public class Cambio_Usuario extends javax.swing.JFrame {
  private String HOST="localhost"; //host
  private String PUERTO="5432";//puerto
  private String DB="ComprasEnLinea";//base de datos
  private String USER="postgres";//usuario
  private String PASS="postgres";// contraseña
  public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url
  private Connection conexion=null;// variable para la base de datos
  public String UserNew=""; // usuario
  public String PassNew="";// contraseña
  * Creates new form Cambio_Usuario
  public Cambio_Usuario() {
    initComponents();
    usuarios();
  public String User(){
    return UserNew;
```

```
// realiza la conexion con la base de datos
public Connection connectaBD(){
  Connection cone=null;
    Class.forName("org.postgresql.Driver");
    cone=DriverManager.getConnection(url,USER,PASS);
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, "Contraseña Incorrecta");
  return cone;
//obtiene los usuarios registrados en la base de datos
public void usuarios(){
  try{
    conexion=connectaBD(); // crea la conexion con la base de datos
    java.sql.Statement corrida=conexion.createStatement();
    // obtiene todos los usuarios de la base de datos
    String Query="SELECT usename \n" +
    "FROM pg_user WHERE usename!='postgres'";
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
    while(columnas.next()){
      //agrega la informacion al campo
      Usuarios.addItem(columnas.getString(1));
    }
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
}
//valida el usuario y contraseña para iniciar sesion
public void ingresa(){
  try{
    USER=(String) Usuarios.getSelectedItem(); //selecciona el usuario
    PASS=Password.getText();
    conexion=connectaBD(); //crea la conexion con la base de datos
    java.sql.Statement corrida=conexion.createStatement();
    // obitene todos los detalles carrito de la base de datos
```

```
String Query="SELECT * FROM Operaciones.Detalle_Carrito";
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
    UserNew=USER;
    PassNew=PASS;
  }catch(Exception ex){
  }
* This method is called from within the constructor to initialize the form.
\ensuremath{^{*}} 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() {
  jLabel1 = new javax.swing.JLabel();
  jLabel2 = new javax.swing.JLabel();
  jLabel3 = new javax.swing.JLabel();
  Ingresa = new javax.swing.JButton();
  Usuarios = new javax.swing.JComboBox();
  Password = new javax.swing.JPasswordField();
  set Default Close Operation (javax.swing. Window Constants. EXIT\_ON\_CLOSE); \\
  setTitle("Login");
  setAutoRequestFocus(false);
  jLabel1.setFont(new java.awt.Font("sansserif", 0, 24)); // NOI18N
  jLabel1.setForeground(new java.awt.Color(255, 102, 0));
  jLabel2.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
  jLabel2.setText("Usuario");
  jLabel3.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
  jLabel3.setText("Contraseña");
```

```
Ingresa.setFont(new java.awt.Font("sansserif", 0, 18)); // NOI18N
    Ingresa.setText("INGRESAR");
    Ingresa.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
         IngresaActionPerformed(evt);
      }
    });
    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
      layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
      . add Group (layout.create Sequential Group ()\\
         . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
           .addGroup(layout.createSequentialGroup()
             . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. TRAILING) \\
               .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 84,
javax.swing.GroupLayout.PREFERRED_SIZE)
               . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                  . add Group (layout.create Sequential Group ()\\
                    .addContainerGap()
                    .addComponent(jLabel1))
                  . add Group (layout.create Sequential Group ()\\
                    .addGap(159, 159, 159)
                    .addComponent(jLabel3))))
             . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
             . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
               .addComponent(Usuarios, 0, 125, Short.MAX_VALUE)
               .addComponent(Password)))
           . add Group (layout.create Sequential Group ()\\
             .addGap(239, 239, 239)
             .addComponent(Ingresa)))
         .addContainerGap(246, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
      layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
      .addGroup(layout.createSequentialGroup()
         .addComponent(jLabel1)
```

```
.addGap(64, 64, 64)
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
           .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 43, javax.swing.GroupLayout.PREFERRED_SIZE)
           .addComponent(Usuarios, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
           .addComponent(jLabel3)
           .addComponent(Password, javax.swing.GroupLayout.PREFERRED_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED\_SIZE))
        .addGap(18, 18, 18)
        .addComponent(Ingresa)
        .addGap(0, 155, Short.MAX_VALUE))
    );
    pack();
  }// </editor-fold>
  private void IngresaActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
    ingresa();
    if(UserNew!=""){
    JOptionPane.showMessageDialog(null, "Bienvenido Usuario: "+UserNew);
     Menu c=new Menu(User());
     c.setVisible(true);
     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. Look And Feel Info\ info: javax.swing. UIManager. get Installed Look And Feels ())\ \{info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. UIManager. get Installed Look And Feel Info \ info \ (javax.swing. under \ info \ inf
                if ("Nimbus".equals(info.getName())) {
                     javax.swing.UIManager.setLookAndFeel(info.getClassName());
                }
          }
     } catch (ClassNotFoundException ex) {
          java.util.logging.Logger.getLogger(Cambio_Usuario.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
     } catch (InstantiationException ex) {
          java.util.logging.Logger.getLogger(Cambio\_Usuario.class.getName()).log(java.util.logging.Level.SEVERE, null, ex); \\
     } catch (IllegalAccessException ex) {
          java.util.logging.Logger.getLogger(Cambio_Usuario.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
     } catch (javax.swing.UnsupportedLookAndFeelException ex) {
          java.util.logging.Logger.getLogger(Cambio_Usuario.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 Cambio_Usuario().setVisible(true);
          }
     });
// Variables declaration - do not modify
private javax.swing.JButton Ingresa;
private javax.swing.JPasswordField Password;
private javax.swing.JComboBox Usuarios;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
// End of variables declaration
```

}

}

Clase Cliente

```
/*
* 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 Usuario;
import Datos.Tarjeta_Cliente;
import Datos.Telefono_Cliente;
import Menu.Menu;
import java.sql.Connection;
import java.awt.Point;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.WindowConstants;
import javax.swing.table.DefaultTableModel;
clase para crear un nuevo cliente
*/
public\ class\ Cliente\ extends\ javax.swing. JF rame\ \{
  private String HOST="localhost"; //host
  private String PUERTO="5432";//puerto
  private String DB="ComprasEnLinea";//base de datos
  private String USER="postgres";//usuario
  private String PASS="postgres";// contraseña
  public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url
  private Connection conexion=null;// variable para la base de datos
  public String id; // id cliente
  public String user; // usuario
```

```
/**
* Creates new form Cliente
public Cliente(String U) {
  initComponents();
  Nombre.setText("");
  Correo.setText("");
  muestra();
  this.setDefaultCloseOperation (JFrame.DISPOSE\_ON\_CLOSE);
  usuario(U);
  user=U;
}
public void usuario(String u){
  if(u.equals("pablo")){
    insertar.setEnabled(false);
    Modificar.setEnabled(false);
    Eliminar.setEnabled(false);
  }
//realiza la conexion con la base de datos
public Connection connectaBD(){
  Connection cone=null;
  try{
    Class.forName("org.postgresql.Driver");
    cone=Driver Manager.get Connection (url, USER, PASS);\\
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
  return cone;
// crea un nuevo cliente
public void inserta(){
  //valida que los campos esten completos
  if (Nombre.get Text (). equals Ignore Case ("") | | Correo.get Text (). equals Ignore Case ("")) | \\
  JOptionPane.showMessageDialog(this, "Casillas vacias");
  }else{
   try{
   conexion=connectaBD(); //crea la conexion con la base de datos
```

```
java.sql.Statement corrida=conexion.createStatement();
   // query para insertar un nuevo cliente en la tabla Usuario.Cliente
   String Query="INSERT INTO Usuario.Cliente(Nombre_Cliente,Correo_Electronico)"
       + "VALUES(""+Nombre.getText()+"",""+Correo.getText()+"")";
   corrida.executeUpdate(Query); //ejecuta el query
   corrida.close();
   conexion.close();//cierra la conexion
   //JOptionPane.showMessageDialog(null, "INSERTO");
  }catch(Exception ex){
  JOptionPane.showMessageDialog(null, "Tupla Repetida");
  }
//muestra los datos del cliente
public void muestra(){
  try{
    conexion=connectaBD(); //crea la conexion con la base de datos
    java.sql.Statement corrida=conexion.createStatement();
    //query para obtener todos los clientes y ordenarlos de forma ascendente
    String Query="SELECT * FROM Usuario.Cliente ORDER BY Id_Cliente ASC";
    String[]datos =new String[5];
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
    DefaultTableModel model=new DefaultTableModel();
    //agrega las columnas al jtable
    model.addColumn("Id Cliente");
    model.addColumn("Nombre Cliente");
    model.addColumn("Correo Electrónico");
    //llena las columnas del jtable
    TCliente.setModel(model);
    while(columnas.next()){
      datos[0]=columnas.getString(1);
      datos[1]=columnas.getString(2);
      datos[2]=columnas.getString(3);
      model.addRow(datos);
    }
    // selecciona un cliente y obtiene los datos al hacer clic dentro del jtable
    TCliente.addMouseListener(new MouseAdapter() {
```

```
public void mousePressed(MouseEvent Mouse_evt){
      JTable table=(JTable) Mouse_evt.getSource();
      Point point = Mouse_evt.getPoint();
      int row=table.rowAtPoint(point);
      if(Mouse_evt.getClickCount()==1){
        Nombre.setText(TCliente.getValueAt(TCliente.getSelectedRow(), 1).toString());\\
        Correo.set Text (TCliente.get Value At (TCliente.get Selected Row (), 2).to String ()); \\
        id=TCliente.getValueAt(TCliente.getSelectedRow(), 0).toString();
    }
    });
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
//elimina un cliente
public void elimina(){
  try{
   conexion=connectaBD(); //crea la conexion con la base de datos
  java.sql.Statement corrida=conexion.createStatement();
   //query para borrar un cliente especifico
   String Query="DELETE FROM Usuario.Cliente WHERE Id_Cliente="+id+"";
   corrida.executeUpdate(Query); //ejecuta el query
   corrida.close();
   conexion.close(); //cierra la conexion
  }catch(Exception ex){
  JOptionPane.showMessageDialog(null, ex);
// acutaliza los datos del cliente
public void modifica(){
  try{
   conexion=connectaBD(); //crea la conexion con la base de datos
   java.sql.Statement corrida=conexion.createStatement();
   // query para actualizar los datos del cliente seleccionado
```

```
String Query="UPDATE Usuario.Cliente SET
Nombre\_Cliente='''+Nombre.getText()+''', Correo\_Electronico='''+Correo.getText()+''''
          + "WHERE Id_Cliente="+id+"";
     corrida.executeUpdate(Query); //ejecuta el query
     corrida.close();
     conexion.close(); //cierra la conexion
    }catch(Exception ex){
     JOptionPane.showMessageDialog(null, ex);
  }
  * 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() {
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    TCliente = new javax.swing.JTable();
    Nombre = new javax.swing.JTextField();
    Correo = new javax.swing.JTextField();
    insertar = new javax.swing.JButton();
    Tarjeta = new javax.swing.JButton();
    Modificar = new javax.swing.JButton();
    Telefono = new javax.swing.JButton();
    Eliminar = new javax.swing.JButton();
    set Default Close Operation (javax.swing. Window Constants. EXIT\_ON\_CLOSE); \\
    setTitle("Cliente");
    jLabel1.setFont(new java.awt.Font("Tw Cen MT", 0, 18)); // NOI18N
    jLabel1.setForeground(new java.awt.Color(0, 204, 204));
    jLabel1.setText("Cliente");
```

```
jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel2.setText("Nombre");
jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setText("Correo Electrónico");
TCliente.set Model (new javax.swing.table.Default Table Model (\\
  new Object [][] {
 },
  new String [] {
    "Title 1", "Title 2", "Title 3", "Title 4"
 }
));
jScrollPane1.setViewportView(TCliente);
Nombre.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
Correo.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
insertar.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
insertar.setText("INSERTAR");
insertar.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    insertarActionPerformed(evt);
 }
});
Tarjeta.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Tarjeta.setText("TARJETA");
Tarjeta.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    TarjetaActionPerformed(evt);
 }
});
```

Modificar.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N

```
Modificar.setText("MODIFICAR");
          Modificar.addActionListener(new java.awt.event.ActionListener() {
              public void actionPerformed(java.awt.event.ActionEvent evt) {
                    ModificarActionPerformed(evt);
             }
          });
          Telefono.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
          Telefono.setText("TELEFONO");
          Telefono.addActionListener(new java.awt.event.ActionListener() {
              public void actionPerformed(java.awt.event.ActionEvent evt) {
                    TelefonoActionPerformed(evt);
              }
          });
          Eliminar.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
          Eliminar.setText("ELIMINAR");
          Eliminar.addActionListener(new java.awt.event.ActionListener() {
               public void actionPerformed(java.awt.event.ActionEvent evt) {
                    EliminarActionPerformed(evt);
              }
          });
          javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
          getContentPane().setLayout(layout);
          layout.setHorizontalGroup(
               layout.create Parallel Group (javax.swing.Group Layout.Alignment.LEAD ING) \\
               . add Group (layout.create Sequential Group ()\\
                    .addContainerGap()
                    . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                         .addGroup(layout.createSequentialGroup()
                              . add Component (jScroll Pane 1, javax. swing. Group Layout. PREFERRED\_SIZE, 650, and the property of the pr
javax.swing. Group Layout. PREFERRED\_SIZE)
                              .addGap(0, 0, Short.MAX_VALUE))
                         .addGroup(layout.createSequentialGroup()
                              . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
                                   . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING, false) \\
                                        .addGroup(layout.createSequentialGroup()
```

```
.addComponent(jLabel2)
                    . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                    .addComponent(Nombre, javax.swing.GroupLayout.PREFERRED_SIZE, 393,
javax.swing.GroupLayout.PREFERRED_SIZE))
                 .addGroup(layout.createSequentialGroup()
                   .addComponent(jLabel3)
                    . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                    .addComponent(Correo)))
               .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 87,
javax.swing.GroupLayout.PREFERRED_SIZE))
             .addGap(18, 18, 18)
             . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
               .addGroup(layout.createSequentialGroup()
                 .addComponent(Modificar)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED, 9, Short. MAX\_VALUE)
                 .addComponent(Telefono))
               .addGroup(layout.createSequentialGroup()
                 . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
                    .addGroup(layout.createSequentialGroup()
                      .addComponent(insertar)
                      .addGap(18, 18, 18)
                      .addComponent(Tarjeta))
                    .addGroup(layout.createSequentialGroup()
                      .addGap(6, 6, 6)
                      .addComponent(Eliminar)))
                 .addGap(0, 0, Short.MAX_VALUE)))))
        .addContainerGap())
    );
    layout.setVerticalGroup(
      layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
       .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
           .addComponent(jLabel1)
           .addComponent(insertar)
           .addComponent(Tarjeta))
        . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
           .addComponent(jLabel2)
```

```
. add Component (Nombre, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.sw
javax.swing.GroupLayout.PREFERRED_SIZE)
                                                      .addComponent(Modificar)
                                                      .addComponent(Telefono))
                                           . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                                                      .addGroup(layout.createSequentialGroup()
                                                                 .addGap(18, 18, 18)
                                                                . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                                                           .addComponent(jLabel3)
                                                                           . add Component (Correo, javax. swing. Group Layout. PREFERRED\_SIZE, javax. swing. Group Layout. DEFAULT\_SIZE, javax. swing. S
javax.swing.GroupLayout.PREFERRED\_SIZE)))
                                                      .addGroup(layout.createSequentialGroup()
                                                                 .addGap(7, 7, 7)
                                                                 .addComponent(Eliminar)))
                                           . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                           . add Component (jS croll Pane 1, javax. swing. Group Layout. PREFERRED\_SIZE, 271, and the property of the p
javax.swing.GroupLayout.PREFERRED_SIZE)
                                           .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                     );
                      pack();
           }// </editor-fold>
           private void TarjetaActionPerformed(java.awt.event.ActionEvent evt) {
                      // TODO add your handling code here:
                      Tarjeta_Cliente Tac=new Tarjeta_Cliente(user);
                      Tac.setVisible(true);
                      //this.setVisible(false);
         }
           private\ void\ TelefonoActionPerformed(java.awt.event.ActionEvent\ evt)\ \{
                      // TODO add your handling code here:
                      Telefono_Cliente Tc=new Telefono_Cliente(user);
                      Tc.setVisible(true);
                      //this.setVisible(false);
           private void insertarActionPerformed(java.awt.event.ActionEvent evt) {
                      // TODO add your handling code here:
```

```
inserta();
  muestra();
  Nombre.setText("");
  Correo.setText("");
}
private\ void\ Modificar Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  modifica();
  muestra();
  Nombre.setText("");
  Correo.setText("");
}
private\ void\ Eliminar Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  elimina();
  muestra();
  Nombre.setText("");
  Correo.setText("");
}
* @param args the command line arguments
*/
// Variables declaration - do not modify
private javax.swing.JTextField Correo;
private javax.swing.JButton Eliminar;
private javax.swing.JButton Modificar;
private javax.swing.JTextField Nombre;
private javax.swing.JTable TCliente;
private\ javax. swing. JB utton\ Tarjeta;
private javax.swing.JButton Telefono;
private javax.swing.JButton insertar;
private\ javax.swing. JLabel\ jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
```

```
private javax.swing.JScrollPane jScrollPane1;
// End of variables declaration
}
```

Clase Proveedor

```
/*
* 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 Usuario;
import Datos.Tarjeta_Cliente;
import Datos.Telefono_Cliente;
import Datos.Telefono_Proveedor;
import Menu.Menu;
import java.sql.Connection;
import java.awt.Point;
import java.awt.event.MouseAdapter;
import java.awt.event.MouseEvent;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
clase de proveedor
*/
public\ class\ Proveedor\ extends\ javax.swing. JFrame\ \{
  private String HOST="localhost"; //host
  private String PUERTO="5432";//puerto
  private String DB="ComprasEnLinea";//base de datos
  private String USER="postgres";//usuario
  private String PASS="postgres";// contraseña
  public String url="jdbc:postgresql://"+HOST+":"+PUERTO+"/"+DB; //dirección url
  private Connection conexion=null;// variable para la base de datos
  public String id;
  public String user;
  /**
```

```
* Creates new form Proveedor
      */
     public Proveedor(String U) {
           initComponents();
           muestra();
           this.setDefaultCloseOperation(JFrame.DISPOSE\_ON\_CLOSE);
           usuario(U);
           user=U;
     public void usuario(String u){
           if(u.equals("pablo")){
                Insertar.setEnabled(false);
                Modificar.setEnabled(false);
                Eliminar.setEnabled(false);
           }
     //realiza la conexion con la base de datos a travez del driver
      public Connection connectaBD(){
           Connection cone=null;
           try{
                Class.forName("org.postgresql.Driver");
                cone=Driver Manager.get Connection (url, USER, PASS);\\
           }catch(Exception ex){
                JOptionPane.showMessageDialog(null, ex);
           }
           return cone;
      // inserta un nuevo proveedor
     public void inserta(){
           //valida que los campos de los datos esten completos
if (Nombre.get Text (). equal signore Case ("") | | Correo.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("")) | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domicilio.get Text (). equal signore Case ("") | | Domic
           JOptionPane.showMessageDialog(this, "Casillas vacias");
           }else{
           try{
               conexion=connectaBD(); // crea la conexion con la base de datos
             java.sql.Statement corrida=conexion.createStatement();
               // query para insertar un nuevo proveedor en la tabla Usuario.Proveedor
```

```
String Query="INSERT INTO Usuario.Proveedor(Nombre_Provedoor,Correo_Electronico,Domicilio_Fiscal)"
       + "VALUES(""+Nombre.getText()+"",""+Correo.getText()+"",""+Domicilio.getText()+"")";
   corrida.executeUpdate(Query); // ejecuta el query
   corrida.close();
   conexion.close(); // cierra la conexion
  }catch(Exception ex){
  JOptionPane.showMessageDialog(null,"Tupla Repetida");
  }
//obtiene los datos del proveedor
public void muestra(){
  try{
   conexion=connectaBD(); //crea la conexion con la base de datos
   java.sql.Statement corrida=conexion.createStatement();
   // query para obtener a los proveedores y ordenarlos de forma ascendente
    String Query="SELECT * FROM Usuario.Proveedor ORDER BY Id_Proveedor ASC";
   String[]datos =new String[5];
    corrida=conexion.createStatement();
    ResultSet columnas=corrida.executeQuery(Query); //ejecuta el query
    DefaultTableModel model=new DefaultTableModel();
   //agrega las columnas al jtable
    model.addColumn("Id Proveedor");
    model.addColumn("Correo Electrónico");
    model.addColumn("Nombre Provedoor");
    model.addColumn("Domicilio Fiscal");
   //llena las columas del jtable
    TProveedor.setModel(model);
    while(columnas.next()){
      datos[0]=columnas.getString(1);
      datos[1]=columnas.getString(2);
      datos[2]=columnas.getString(3);
      datos[3]=columnas.getString(4);
      model.addRow(datos);
   // obtiene los datos del proveedor al hacer clic en el renglon dentro del jtable
   TProveedor.addMouseListener(new MouseAdapter() {
    public void mousePressed(MouseEvent Mouse_evt){
```

```
JTable table=(JTable) Mouse_evt.getSource();
      Point point = Mouse_evt.getPoint();
      int row=table.rowAtPoint(point);
      if(Mouse_evt.getClickCount()==1){
        Nombre.setText(TProveedor.getValueAt(TProveedor.getSelectedRow(), 2).toString());\\
        Correo.setText(TProveedor.getValueAt(TProveedor.getSelectedRow(), 1).toString());\\
        Domicilio.set Text (TProveed or.get Value At (TProveed or.get Selected Row (), 3). to String ()); \\
        id=TProveedor.getValueAt(TProveedor.getSelectedRow(), 0).toString();
    }
    });
  }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  }
//elimina un proveedor
public void elimina(){
  try{
   conexion=connectaBD(); //crea la conexion de la base de datos
  java.sql.Statement corrida=conexion.createStatement();
   //query para eliminar el telefono del proveedor segun su Id
   String Query="DELETE FROM Datos.Telefono_Proveedor WHERE Id_Proveedor="+id+"";
   // query que elimina al proveedor seleccionado
   String Query2="DELETE FROM Usuario.Proveedor WHERE Id_Proveedor="+id+"";
   corrida.executeUpdate(Query); //ejecuta el query
   corrida.executeUpdate(Query2);//ejecuta el query
   corrida.close();
   conexion.close(); //cierra la conexion
  }catch(Exception ex){
  JOptionPane.showMessageDialog(null, ex);
//acutaliza los datos del proveedor
public void modifica(){
  try{
   conexion=connectaBD(); // crea la conexion con la base de datos
```

```
java.sql.Statement corrida=conexion.createStatement();
     // actualiza los datos del proveedor seleccionado
     String Query="UPDATE Usuario.Proveedor SET
Nombre_Provedoor=""+Nombre.getText()+"",Correo_Electronico=""+Correo.getText()+"","
         + "Domicilio_Fiscal=""+Domicilio.getText()+"""
         + "WHERE Id_Proveedor="+id+"";
     corrida.executeUpdate(Query); //ejecuta el query
     corrida.close();
     conexion.close(); // cierra la conexion
    }catch(Exception ex){
    JOptionPane.showMessageDialog(null, ex);
  * 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() {
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    Insertar = new javax.swing.JButton();
    Modificar = new javax.swing.JButton();
    Eliminar = new javax.swing.JButton();
    Telefono = new javax.swing.JButton();
    jScrollPane2 = new javax.swing.JScrollPane();
    TProveedor = new javax.swing.JTable();
    Correo = new javax.swing.JTextField();
    Nombre = new javax.swing.JTextField();
    Domicilio = new javax.swing.JTextField();
```

```
jTable1.setModel(new javax.swing.table.DefaultTableModel(
  new Object [][] {
    {null, null, null, null},
    {null, null, null, null},
    {null, null, null, null},
    {null, null, null, null}
  },
  new String [] {
    "Title 1", "Title 2", "Title 3", "Title 4"
  }
));
jScrollPane1.setViewportView(jTable1);
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
setTitle("Proveedor");
jLabel1.setFont(new java.awt.Font("Tahoma", 2, 18)); // NOI18N
jLabel1.setForeground(new java.awt.Color(0, 204, 204));
jLabel1.setText("Proveedor");
jLabel2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel2.setText("Correo Electrónico");
jLabel3.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel3.setText("Nombre");
jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jLabel4.setText("Domicilio Fiscal");
Insertar.setText("INSERTAR");
Insertar.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    InsertarActionPerformed(evt);
  }
});
Modificar.setText("MODIFICAR");
Modificar.addActionListener(new java.awt.event.ActionListener() {
```

```
public void actionPerformed(java.awt.event.ActionEvent evt) {
    ModificarActionPerformed(evt);
  }
});
Eliminar.setText("ELIMINAR");
Eliminar.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    EliminarActionPerformed(evt);
 }
});
Telefono.setText("TELEFONO");
Telefono.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    TelefonoActionPerformed(evt);
 }
});
TProveed or. set Model (new javax. swing. table. Default Table Model (new javax. swing. table.) \\
  new Object [][] {
 },
  new String [] {
    "Title 1", "Title 2", "Title 3", "Title 4"
  }
));
jScrollPane2.setViewportView(TProveedor);
Correo.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Nombre.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
Domicilio.setFont(new java.awt.Font("Tahoma", 0, 14)); // NOI18N
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()
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
           . add Group (layout.create Sequential Group ()\\
             .addComponent(jScrollPane2)
             .addContainerGap())
           .addGroup(layout.createSequentialGroup()
             . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEADING) \\
               . add Group (layout.create Sequential Group ()\\
                 .addComponent(jLabel2)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                 .addComponent(Correo, javax.swing.GroupLayout.DEFAULT_SIZE, 484, Short.MAX_VALUE))
               .addGroup(layout.createSequentialGroup()
                 .addComponent(jLabel3)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                 .addComponent(Nombre))
               .addGroup(layout.createSequentialGroup()
                 .addComponent(jLabel4)
                 . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                 .addComponent(Domicilio))
               . add Group (layout.create Sequential Group ()\\
                 .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 91,
javax.swing.GroupLayout.PREFERRED_SIZE)
                 .addGap(0, 0, Short.MAX_VALUE)))
             .addGap(18, 18, 18)
             .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
               .addComponent(Modificar)
               .addComponent(Eliminar, javax.swing.GroupLayout.Alignment.LEADING)
               . add Component (Insertar, javax.swing. Group Layout. A lignment. LEADING) \\
               . add Component (Telefono, javax. swing. Group Layout. A lignment. LEADING)) \\
             .addGap(33, 33, 33))))
    layout.setVerticalGroup(
      layout.create Parallel Group (javax.swing. Group Layout. Alignment. LEADING) \\
      .addGroup(layout.createSequentialGroup()
        . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
           .addGroup(layout.createSequentialGroup()
```

);

```
.addContainerGap()
                                                              .addComponent(jLabel1)
                                                              .addGap(12, 12, 12)
                                                              . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                                                       .addComponent(jLabel2)
                                                                       . add Component (Correo, javax. swing. Group Layout. PREFERRED\_SIZE, javax. swing. Group Layout. DEFAULT\_SIZE, javax. swing. Group Layout. Swing. S
javax.swing.GroupLayout.PREFERRED_SIZE))
                                                              .addGap(8, 8, 8)
                                                              . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                                                       .addComponent(jLabel3)
                                                                       . add Component (Nombre, javax.swing. Group Layout. PREFERRED\_SIZE, javax.swing. Group Layout. DEFAULT\_SIZE, javax.sw
javax.swing.GroupLayout.PREFERRED_SIZE))
                                                              .addGap(8, 8, 8)
                                                              . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. BASELINE) \\
                                                                       .addComponent(jLabel4)
                                                                       . add Component (Domicilio, javax. swing. Group Layout. PREFERRED\_SIZE, javax. swing. Group Layout. DEFAULT\_SIZE, javax. swing. Swing
javax.swing.GroupLayout.PREFERRED_SIZE)))
                                                   .addGroup(layout.createSequentialGroup()
                                                              .addComponent(Insertar)
                                                              .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                                                              .addComponent(Modificar)
                                                              . add Preferred Gap (javax. swing. Layout Style. Component Placement. RELATED) \\
                                                              .addComponent(Eliminar)
                                                              . add Preferred Gap (javax. swing. Layout Style. Component Placement. UNRELATED) \\
                                                              .addComponent(Telefono)))
                                         .addGap(35, 35, 35)
                                         .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 211,
javax.swing.GroupLayout.PREFERRED_SIZE)
                                         .addContainerGap(33, Short.MAX_VALUE))
                     );
                     pack();
          }// </editor-fold>
          private void InsertarActionPerformed(java.awt.event.ActionEvent evt) {
                     // TODO add your handling code here:
                     inserta();
                     muestra();
                     Nombre.setText("");
```

```
Correo.setText("");
  Domicilio.setText("");
private\ void\ Modificar Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  modifica();
  muestra();
  Nombre.setText("");
  Correo.setText("");
  Domicilio.setText("");
}
private void EliminarActionPerformed(java.awt.event.ActionEvent evt) {
  // TODO add your handling code here:
  elimina();
  muestra();
  Nombre.setText("");
  Correo.setText("");
  Domicilio.setText("");
}
private\ void\ Telefono Action Performed (java.awt.event. Action Event\ evt)\ \{
  // TODO add your handling code here:
  Telefono_Proveedor Tp=new Telefono_Proveedor(user);
  Tp.setVisible(true);
  //this.setVisible(false);
}
// Variables declaration - do not modify
private javax.swing.JTextField Correo;
private javax.swing.JTextField Domicilio;
private javax.swing.JButton Eliminar;
private javax.swing.JButton Insertar;
private javax.swing.JButton Modificar;
private javax.swing.JTextField Nombre;
private javax.swing.JTable TProveedor;
```

```
private javax.swing.JButton Telefono;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTable jTable1;
// End of variables declaration
}
```