Xocotepetl

Actividad de aprendizaje 14. Desarrolla un proyecto que administre una base de datos.

Es recomendable visualizar esta tarea desde el siguiente enlace, debido a la comodidad visual ya la gran compresión que exige la plataforma para subir los documentos.   
<https://github.com/davi3004/Xocotepetl>

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# Nombre del sistema

Xocotepetl

# Descripción breve de la problemática

El dueño de una chocolatería llamada Xocotepetl tiene dificultades para mantener el control del inventario de su negocio. Actualmente, lleva el registro de los productos y el inventario de forma manual en una hoja de cálculo, lo que hace que el proceso sea propenso a errores y poco eficiente.

# Solución propuesta

Se propone desarrollar un sistema de inventario automatizado llamado Xocotepetl, que permita al dueño de la chocolatería llevar un registro preciso y eficiente del inventario de su negocio. El sistema permitirá agregar, editar y eliminar productos del inventario, y también permitirá calcular el costo total de los productos que se van a llevar y generar un ticket de compra para el cliente.

El menú que se tomará en cuenta para la creación de la base de datos será el siguiente



# Diseño del sistema

Ya una vez que tenemos lo anterior en cuenta, podemos pensar en una posible solución para el problema. Para el sistema a ejecutar, podríamos considerar las siguientes funcionalidades:

* Registro de ventas: el sistema debería permitir registrar las ventas de enchocolatados y bebidas, retornando un total.
* Consulta de inventario: el sistema debería consultar en cualquier momento el inventario.

En cuanto a los requerimientos específicos, podemos considerar lo siguiente:

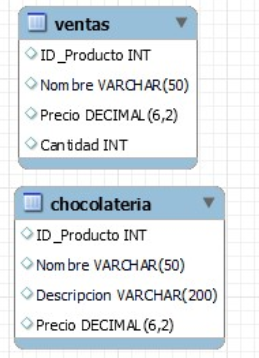
* Registrar ventas con precio correcto: el sistema debería permitir ingresar el precio de venta de cada producto al momento de registrar la venta, para que el sistema pueda calcular el total de ingresos generados por esa venta.

La experiencia de usuario se podría mostrar de la siguiente manera.



# Diagrama de la base de datos

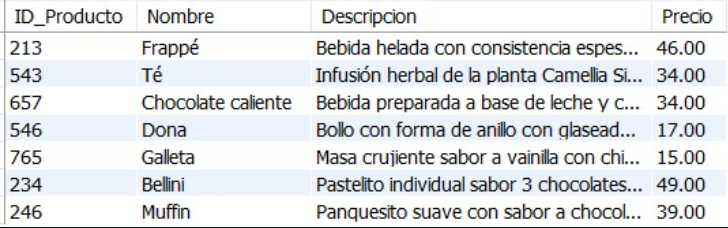
El diagrama de la base de datos será el siguiente:



Las tablas que tendrá serán las siguientes:

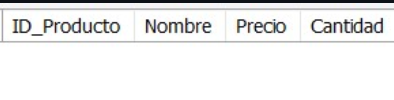
## Tabla chocolateria

Esta tabla tendrá el inventario, y sus datos, algunos datos pueden variar de acuerdo con la tabla debido a las pruebas realizadas.



## Tabla ventas

Esta tabla tendrá las ventas al momento, y sus datos, algunos datos pueden variar de acuerdo con la tabla debido a las pruebas realizadas.



# Código de base de datos

Ahora bien, el código fuente de la base de datos es el siguiente.

|  |
| --- |
| DROP TABLE IF EXISTS Chocolateria;  CREATE TABLE Chocolateria (  ID\_Producto INT,  Nombre VARCHAR(50),  Descripcion VARCHAR(200),  Precio DECIMAL(6,2)  );  LOCK TABLES `Chocolateria` WRITE;  INSERT INTO `Chocolateria` (ID\_Producto, Nombre, Descripcion, Precio) VALUES (213, 'Frappé', 'Bebida helada con consistencia espesa semejante a la de un helado.', 46.00);  INSERT INTO `Chocolateria` (ID\_Producto, Nombre, Descripcion, Precio) VALUES (543, 'Té', 'Infusión herbal de la planta Camellia Sinensis, se puede preparar frío o caliente.', 34.00);  INSERT INTO `Chocolateria` (ID\_Producto, Nombre, Descripcion, Precio) VALUES (657, 'Chocolate caliente', 'Bebida preparada a base de leche y chocolate blanco u oscuro.', 34.00);  INSERT INTO `Chocolateria` (ID\_Producto, Nombre, Descripcion, Precio) VALUES (546, 'Dona', 'Bollo con forma de anillo con glaseado de glass, chocolate o maple.', 17.00);  INSERT INTO `Chocolateria` (ID\_Producto, Nombre, Descripcion, Precio) VALUES (765, 'Galleta', 'Masa crujiente sabor a vainilla con chispas de chocolate belga o avena con pasas.', 15.00);  INSERT INTO `Chocolateria` (ID\_Producto, Nombre, Descripcion, Precio) VALUES (234, 'Bellini', 'Pastelito individual sabor 3 chocolates sellado con mousse de chocolate.', 49.00);  INSERT INTO `Chocolateria` (ID\_Producto, Nombre, Descripcion, Precio) VALUES (246, 'Muffin', 'Panquesito suave con sabor a chocolate con chispas o vainilla con mora azul.', 39.00);  UNLOCK TABLES;  DROP TABLE IF EXISTS Ventas;  CREATE TABLE Ventas (  ID\_Producto INT,  Nombre VARCHAR(50),  Precio DECIMAL(6,2),  Cantidad INT  );  LOCK TABLES `ventas` WRITE;  UNLOCK TABLES; |

# Limitaciones

Algunas de las limitaciones son las que cuenta el software son las siguientes:

* Dificultad para almacenar el stock, debido a que son bebidas preparadas, se hacen al momento, es decir no hay posibilidad de hacer el conteo sin los ingredientes.
* Guardar ventas anteriores, debido a que la base de datos "ventas" se usa para anotar los productos vendidos entonces se borra cada que se sale del programa o se imprime el ticket

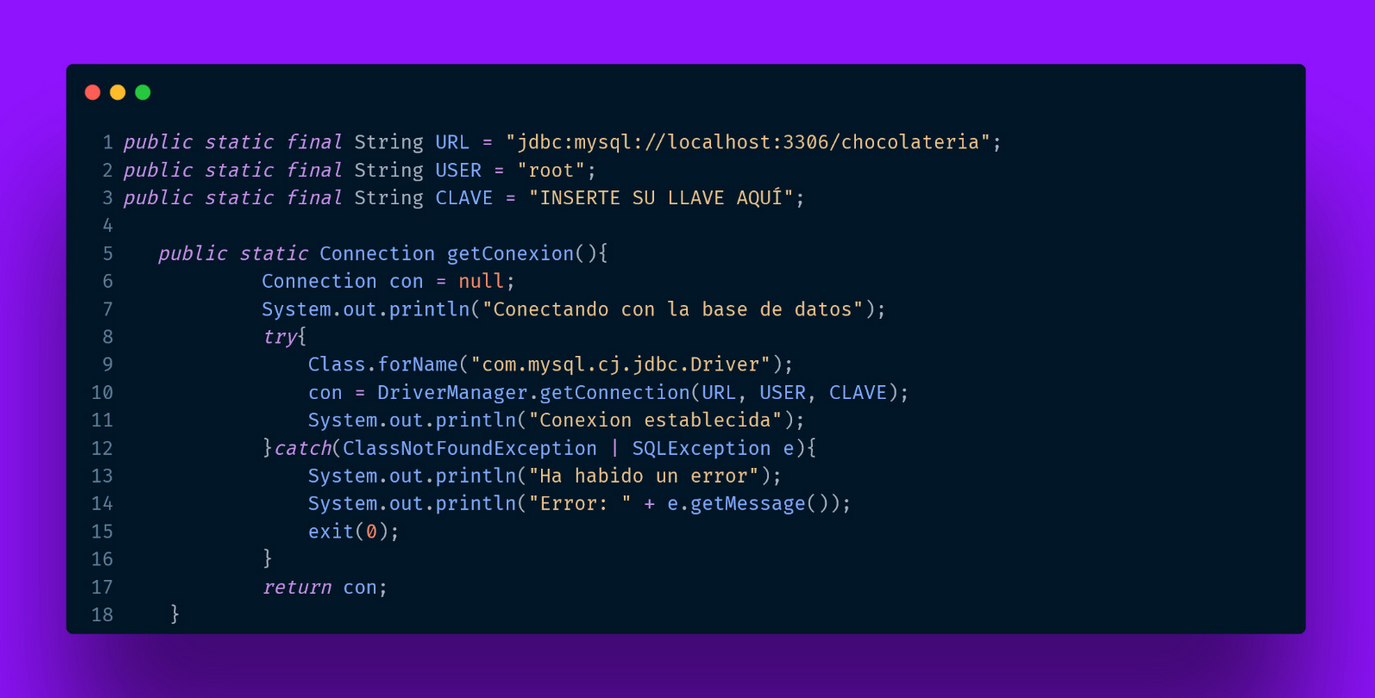
# Errores

El software tiene un error donde está la caja de cobro, al añadir o eliminar un objeto de la tabla salen muchos errores, pero esto no afecta al funcionamiento del sistema.

# Software

La clase principal se llama Xocotepetl.java

Para usar el software es necesario modificar la siguiente parte del código dentro de la clase Conexion\_interac.



El apartado que se debe cambiar es donde dice INSERTE SU LLAVE AQUÍ.

El software además puede ser ejecutado descargando y configurando todo, para esto recomiendo usar.

* MySQL
* Apache NetBeans IDE 17
* Java: 19.0.2; Java HotSpot(TM) 64-Bit Server VM 19.0.2+7-44

A continuación, se muestra un ejemplo del uso del sistema, este sistema puede ser descargado y ejecutado como se mencionó anteriormente.

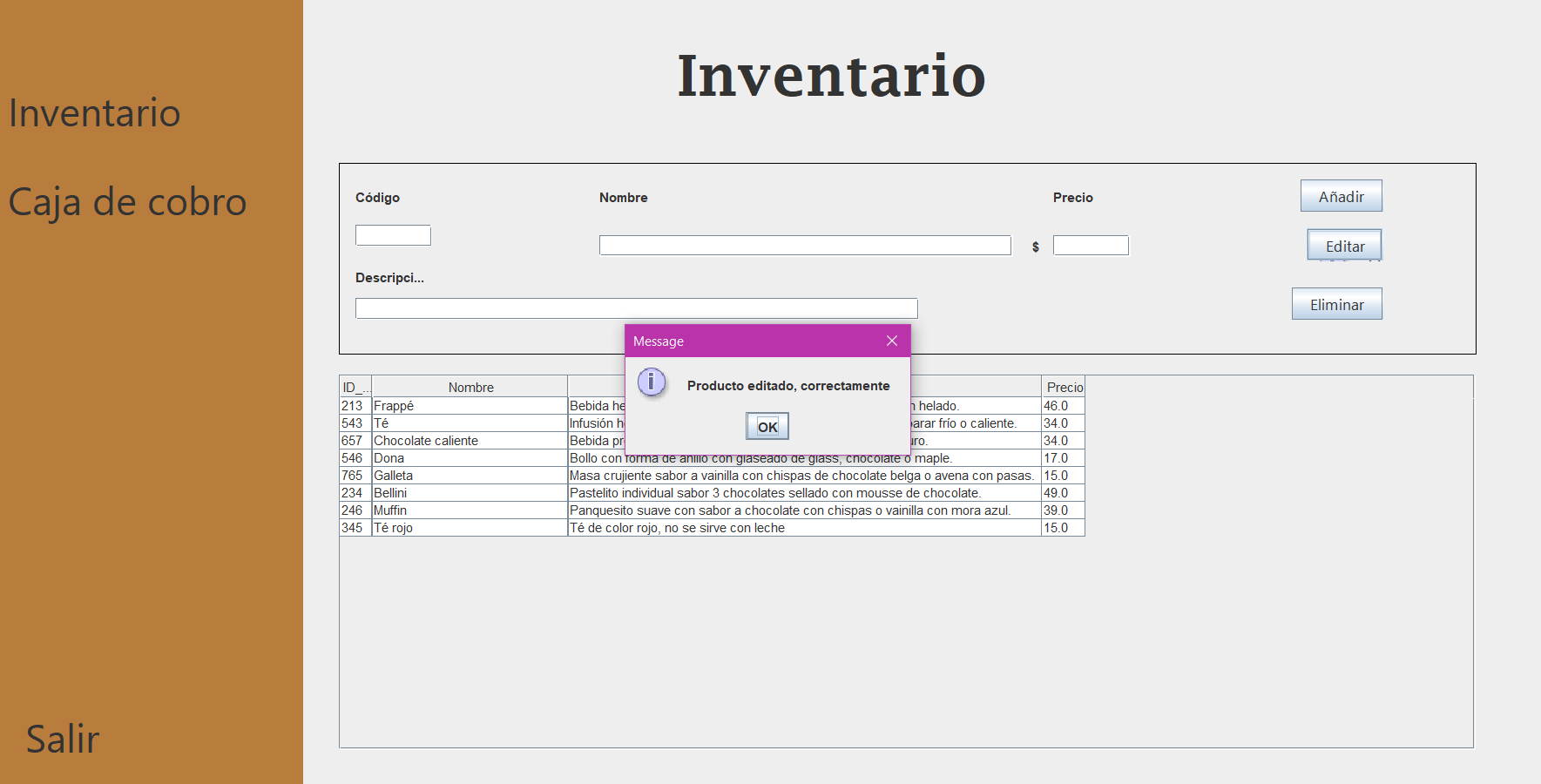
# Capturas



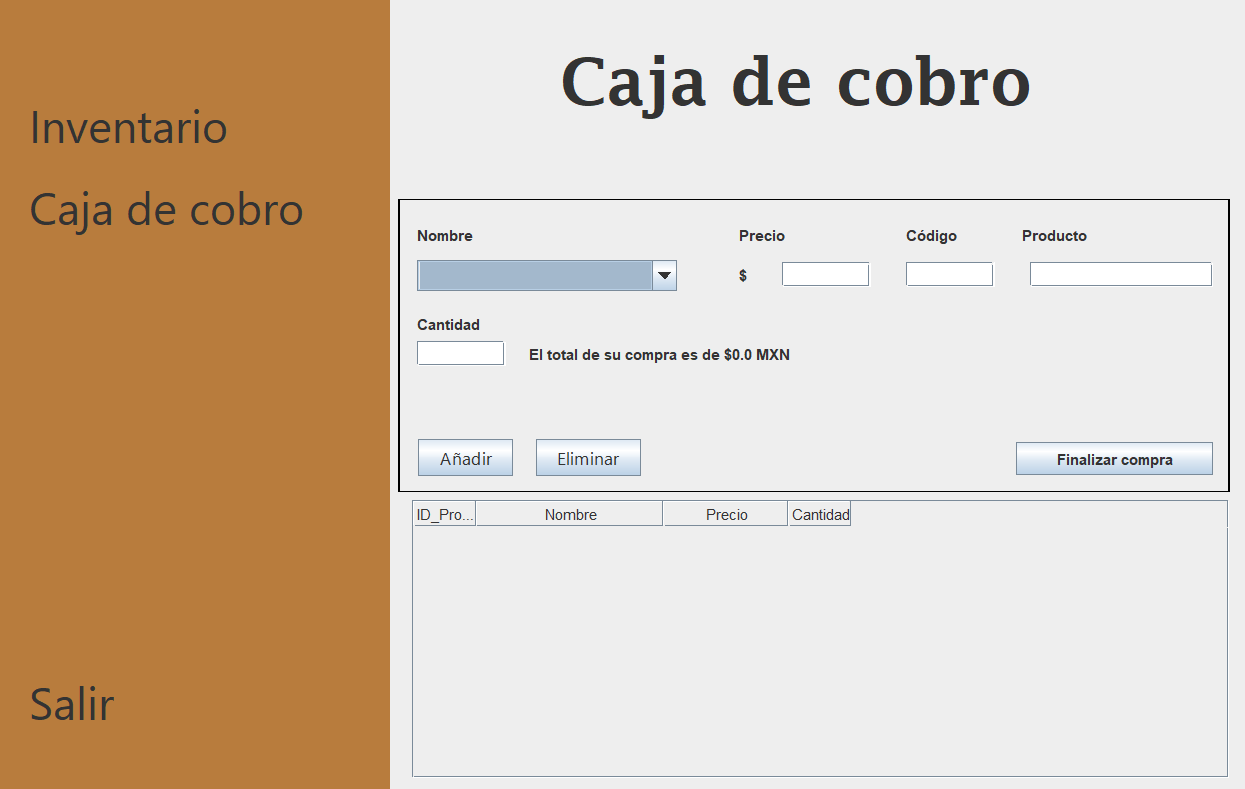


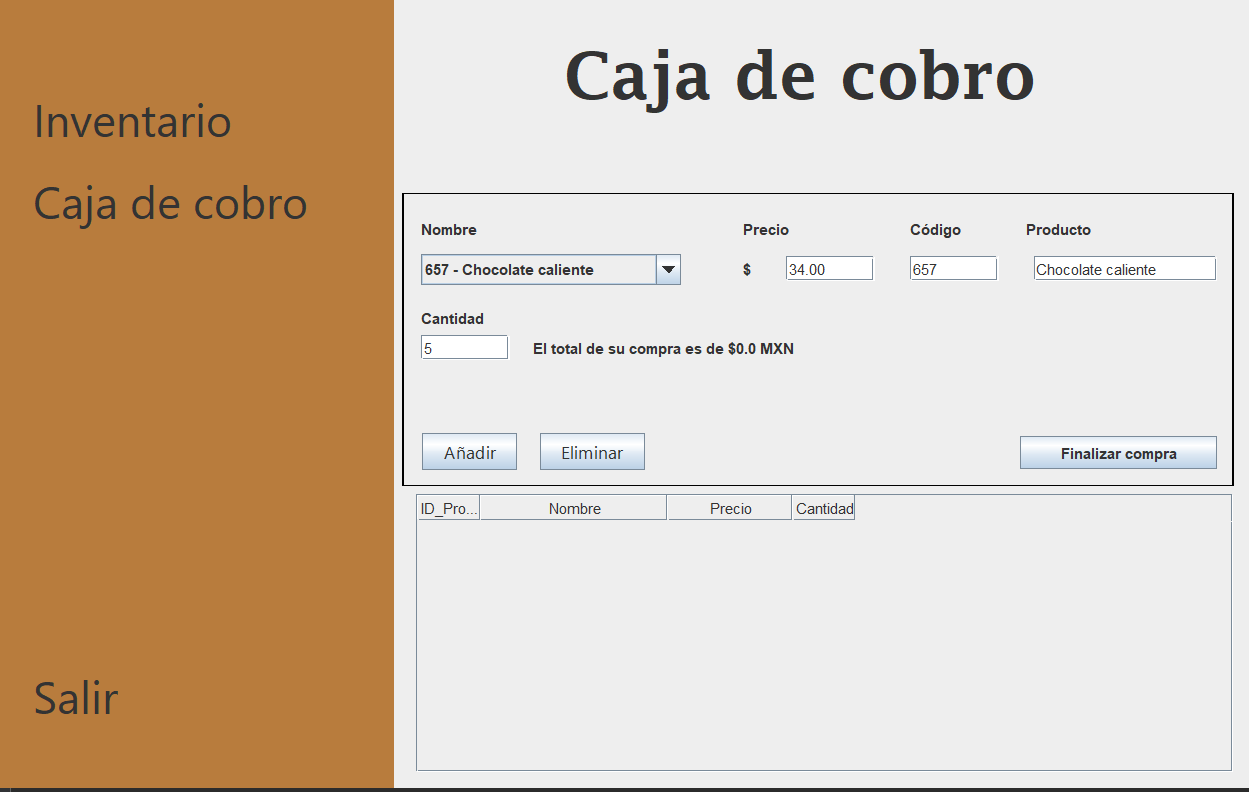


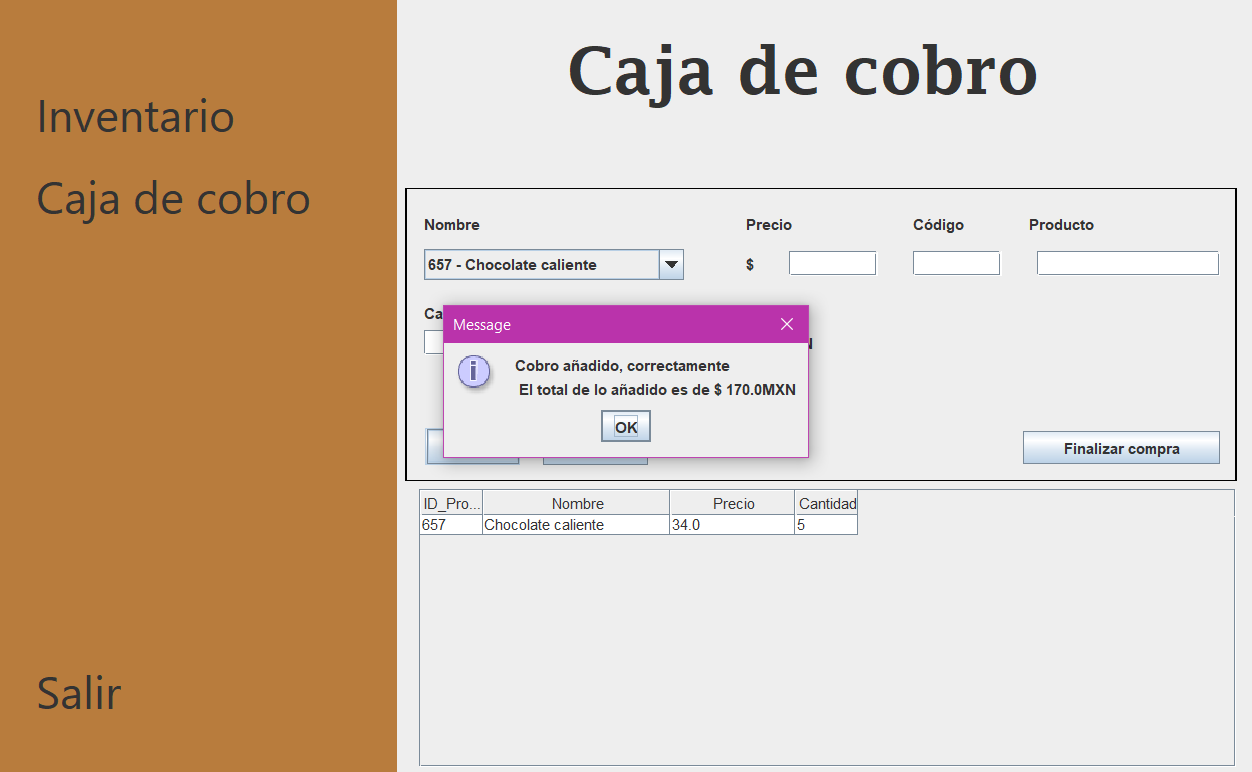


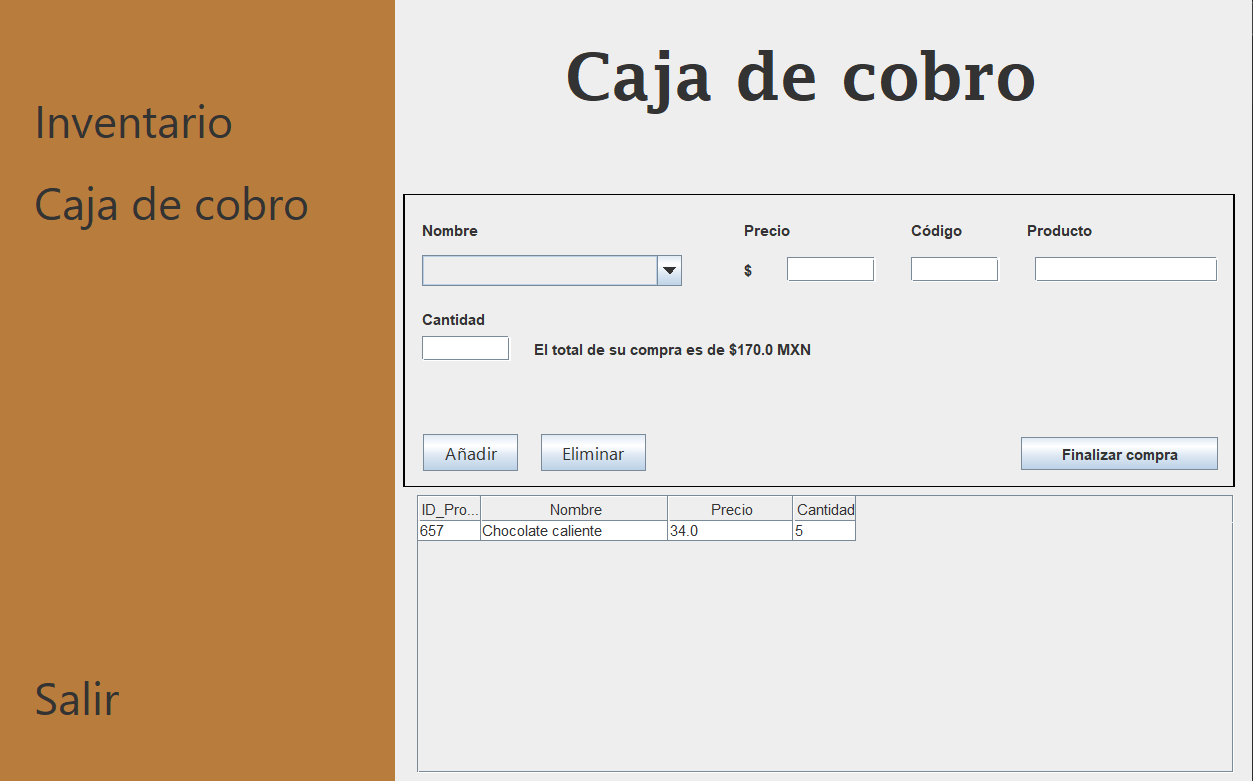


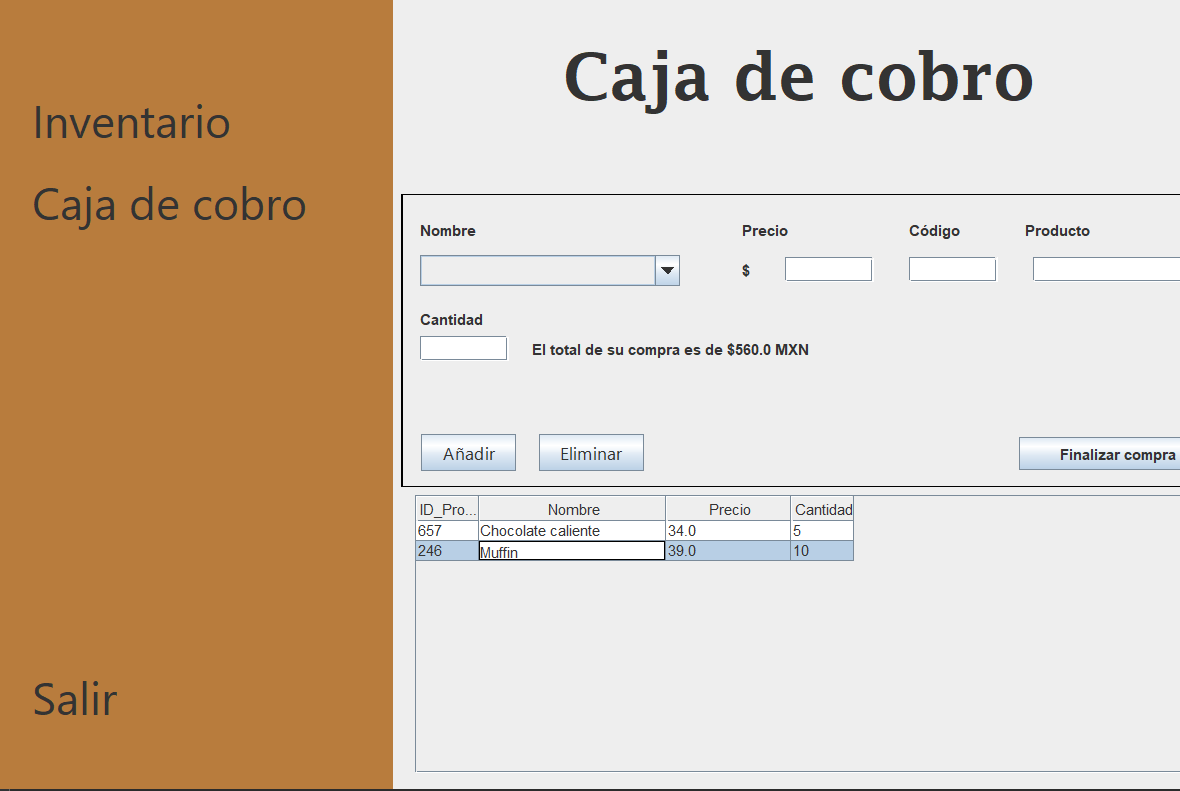


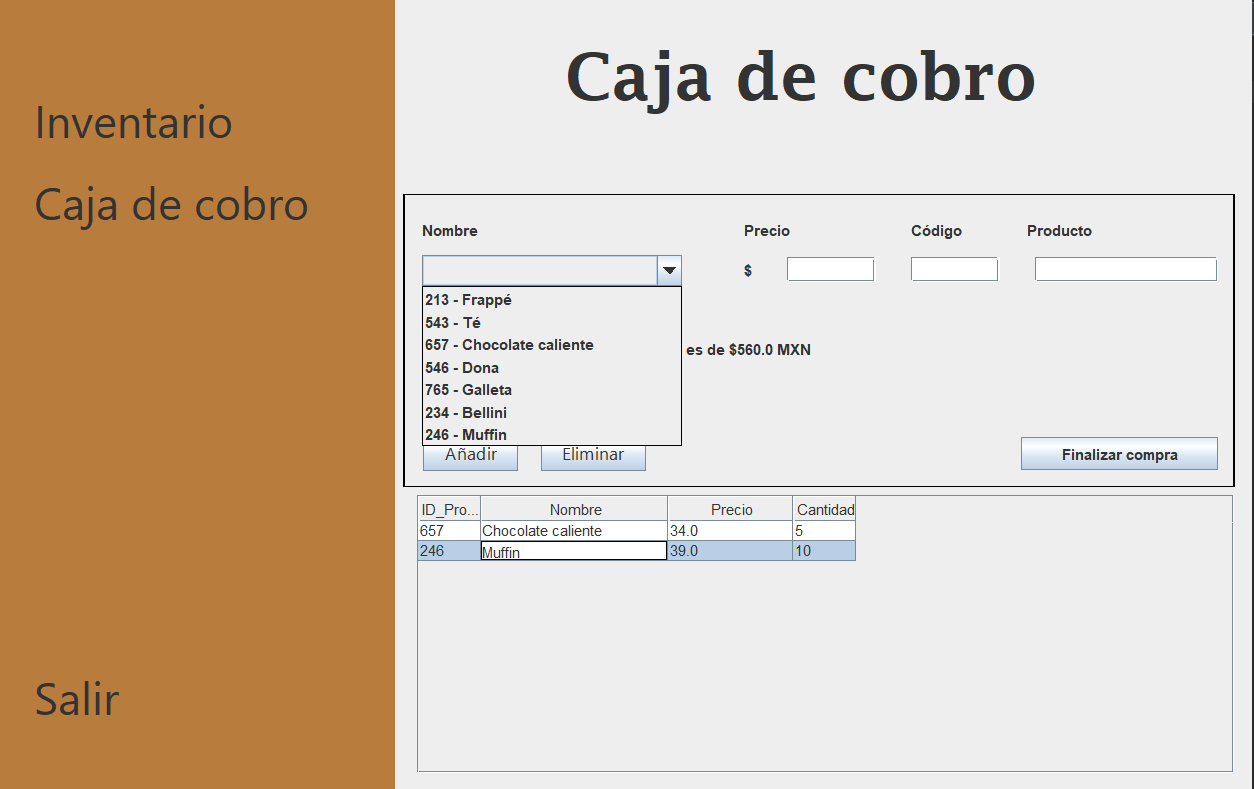


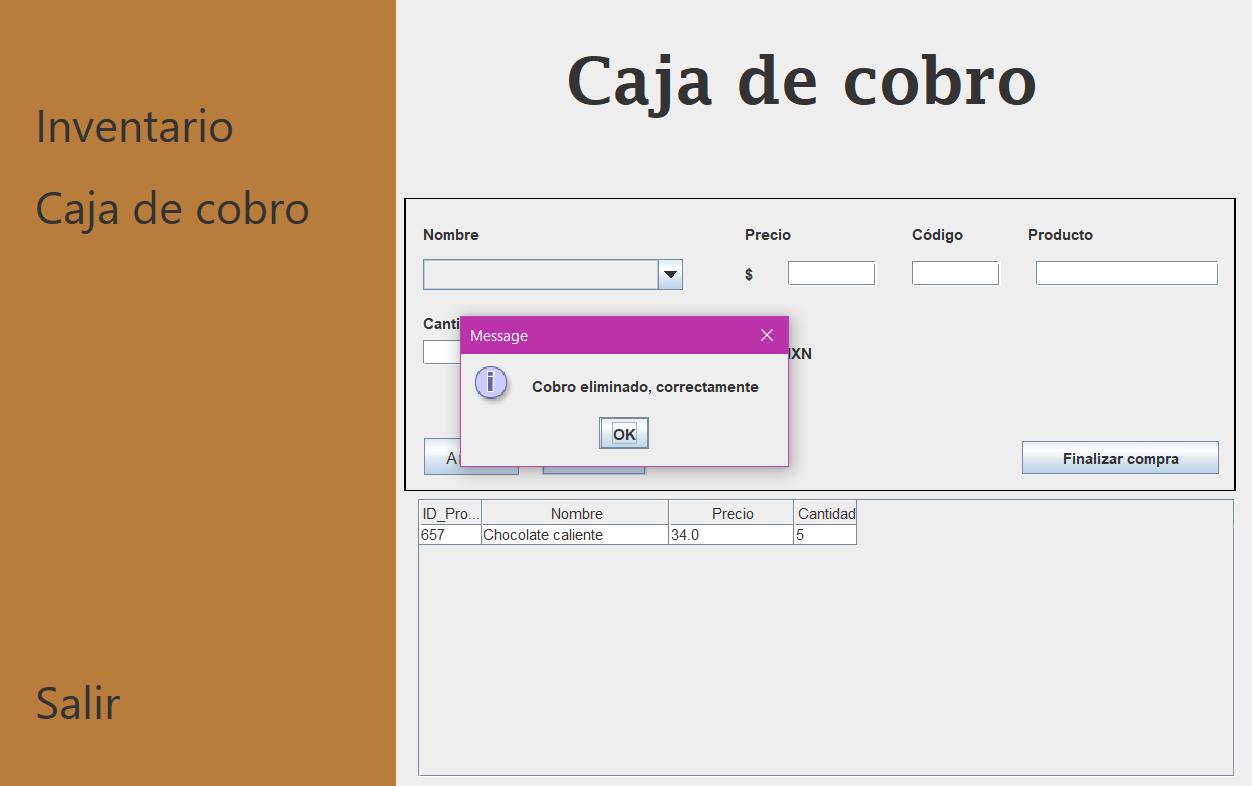


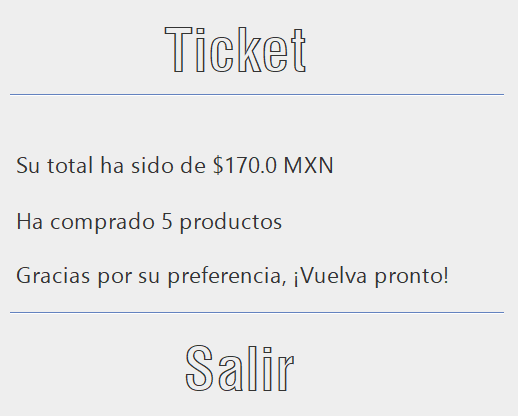












# Código fuente

# CajaDeCobro.java

|  |
| --- |
| package xocotepetl;  import java.awt.Component;  import java.sql.Connection;  import java.sql.Statement;  import java.sql.ResultSet;  import java.sql.SQLException;  import javax.swing.JOptionPane;  import javax.swing.JTable;  import javax.swing.table.DefaultTableModel;  import javax.swing.table.TableCellRenderer;  import javax.swing.table.TableColumn;  public class CajaDeCobro extends javax.swing.JFrame {  public CajaDeCobro() {  initComponents();  comboProducto();  mostrar();  }    private void comboProducto(){  try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("SELECT ID\_Producto, Nombre FROM chocolateria");  while (rs.next()) {  listadoProductos.addItem(rs.getString("ID\_Producto") + " - " + rs.getString("Nombre"));  }  listadoProductos.setSelectedIndex(-1);    } catch (Exception e) {  System.out.println(e.getMessage());  }  codigoproducto.setText("");  productomostrado.setText("");  precioproducto.setText("");  }      private static double calcularTotalVentas() {  double totalVentas = 0.0;  try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("SELECT SUM(Cantidad \* Precio) AS TotalVentas FROM ventas");  if (rs.next()) {  totalVentas = rs.getDouble("TotalVentas");  }  } catch (SQLException e) {  System.out.println(e);  }  return totalVentas;  }    private void mostrar() {  tablaventas.setAutoResizeMode(JTable.AUTO\_RESIZE\_OFF);  for (int column = 0; column < tablaventas.getColumnCount(); column++)  {  TableColumn tableColumn = tablaventas.getColumnModel().getColumn(column);  int preferredWidth = tableColumn.getMinWidth();  int maxWidth = tableColumn.getMaxWidth();  for (int row = 0; row < tablaventas.getRowCount(); row++)  {  TableCellRenderer cellRenderer = tablaventas.getCellRenderer(row, column);  Component c = tablaventas.prepareRenderer(cellRenderer, row, column);  int width = c.getPreferredSize().width + tablaventas.getIntercellSpacing().width;  preferredWidth = Math.max(preferredWidth, width);  if (preferredWidth >= maxWidth)  {  preferredWidth = maxWidth;  break;  }  }  tableColumn.setPreferredWidth(preferredWidth);  }  DefaultTableModel modelo = new DefaultTableModel();  modelo.setColumnIdentifiers(new String[]{"ID\_Producto", "Nombre", "Precio", "Cantidad"});    try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("SELECT ID\_Producto, Nombre, Precio, Cantidad FROM Ventas");    while (rs.next()) {  Object[] fila = new Object[4];  fila[0] = rs.getInt("ID\_Producto");  fila[1] = rs.getString("Nombre");  fila[2] = rs.getDouble("Precio");  fila[3] = rs.getInt("Cantidad");  modelo.addRow(fila);  }    tablaventas.setModel(modelo);  tablaventas.getColumnModel().getColumn(0).setPreferredWidth(50);  tablaventas.getColumnModel().getColumn(1).setPreferredWidth(150);  tablaventas.getColumnModel().getColumn(2).setPreferredWidth(100);  tablaventas.getColumnModel().getColumn(3).setPreferredWidth(50);    } catch (Exception e) {  System.out.println(e);  }  }    @SuppressWarnings("unchecked")  // <editor-fold defaultstate="collapsed" desc="Generated Code">  private void initComponents() {  jPanel1 = new javax.swing.JPanel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  jLabel5 = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  addproduct = new javax.swing.JButton();  rmvproduct = new javax.swing.JButton();  jLabel7 = new javax.swing.JLabel();  jLabel8 = new javax.swing.JLabel();  jLabel9 = new javax.swing.JLabel();  jLabel10 = new javax.swing.JLabel();  jLabel11 = new javax.swing.JLabel();  codigoproducto = new javax.swing.JTextField();  productomostrado = new javax.swing.JTextField();  jLabel13 = new javax.swing.JLabel();  cantidad = new javax.swing.JTextField();  listadoProductos = new javax.swing.JComboBox<>();  lblsubtotal = new javax.swing.JLabel();  cerrarcuenta = new javax.swing.JButton();  precioproducto = new javax.swing.JTextField();  jScrollPane1 = new javax.swing.JScrollPane();  tablaventas = new javax.swing.JTable();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setUndecorated(true);  jPanel1.setBackground(new java.awt.Color(184, 124, 61));  jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 36)); // NOI18N  jLabel1.setText("Inventario");  jLabel1.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  jLabel1MouseClicked(evt);  }  });  jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 36)); // NOI18N  jLabel2.setText("Salir");  jLabel2.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  jLabel2MouseClicked(evt);  }  public void mouseEntered(java.awt.event.MouseEvent evt) {  jLabel2MouseEntered(evt);  }  });  jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 36)); // NOI18N  jLabel4.setText("Caja de cobro");  jLabel4.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  jLabel4MouseClicked(evt);  }  });  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(30, 30, 30)  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 157, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 269, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 186, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addContainerGap(20, Short.MAX\_VALUE))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(75, 75, 75)  .addComponent(jLabel1)  .addGap(18, 18, 18)  .addComponent(jLabel4)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(50, 50, 50))  );  jLabel5.setFont(new java.awt.Font("Lucida Fax", 1, 52)); // NOI18N  jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);  jLabel5.setText("Caja de cobro");  jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  addproduct.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N  addproduct.setText("Añadir");  addproduct.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  addproductActionPerformed(evt);  }  });  rmvproduct.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N  rmvproduct.setText("Eliminar");  rmvproduct.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  rmvproductActionPerformed(evt);  }  });  jLabel7.setText("Código");  jLabel8.setText("Nombre");  jLabel9.setText("Precio");  jLabel10.setText("Producto");  jLabel11.setText("Cantidad");  codigoproducto.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  codigoproductoActionPerformed(evt);  }  });  productomostrado.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  productomostradoActionPerformed(evt);  }  });  jLabel13.setText("$");  cantidad.addInputMethodListener(new java.awt.event.InputMethodListener() {  public void caretPositionChanged(java.awt.event.InputMethodEvent evt) {  }  public void inputMethodTextChanged(java.awt.event.InputMethodEvent evt) {  cantidadInputMethodTextChanged(evt);  }  });  cantidad.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  cantidadActionPerformed(evt);  }  });  listadoProductos.addItemListener(new java.awt.event.ItemListener() {  public void itemStateChanged(java.awt.event.ItemEvent evt) {  listadoProductosItemStateChanged(evt);  }  });  listadoProductos.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  listadoProductosActionPerformed(evt);  }  });  lblsubtotal.setText("El total de su compra es de $0.0 MXN");  cerrarcuenta.setText("Finalizar compra");  cerrarcuenta.setToolTipText("");  cerrarcuenta.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  cerrarcuentaActionPerformed(evt);  }  });  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addGap(14, 14, 14)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addComponent(cantidad, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(18, 18, 18)  .addComponent(lblsubtotal, javax.swing.GroupLayout.PREFERRED\_SIZE, 347, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()  .addGap(0, 0, Short.MAX\_VALUE)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()  .addComponent(addproduct)  .addGap(18, 18, 18)  .addComponent(rmvproduct)  .addGap(300, 300, 300)  .addComponent(cerrarcuenta, javax.swing.GroupLayout.PREFERRED\_SIZE, 158, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()  .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED\_SIZE, 65, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(192, 192, 192))  .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(listadoProductos, javax.swing.GroupLayout.PREFERRED\_SIZE, 208, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jLabel11, javax.swing.GroupLayout.PREFERRED\_SIZE, 79, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(49, 49, 49)))  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED\_SIZE, 65, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(jPanel2Layout.createSequentialGroup()  .addComponent(jLabel13, javax.swing.GroupLayout.PREFERRED\_SIZE, 17, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(precioproducto, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addGap(28, 28, 28)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED\_SIZE, 65, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(codigoproducto, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(22, 22, 22)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addGap(6, 6, 6)  .addComponent(productomostrado, javax.swing.GroupLayout.PREFERRED\_SIZE, 147, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED\_SIZE, 65, javax.swing.GroupLayout.PREFERRED\_SIZE))))))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addGap(20, 20, 20)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(jLabel10)  .addComponent(jLabel8)  .addComponent(jLabel7)  .addComponent(jLabel9))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(productomostrado, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(codigoproducto, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(listadoProductos, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(precioproducto, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jLabel13))  .addGap(18, 18, 18)  .addComponent(jLabel11)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(cantidad, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(lblsubtotal))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 58, Short.MAX\_VALUE)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(addproduct)  .addComponent(rmvproduct)  .addComponent(cerrarcuenta))  .addContainerGap())  );  tablaventas.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  tablaventasMouseClicked(evt);  }  });  jScrollPane1.setViewportView(tablaventas);  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 654, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(layout.createSequentialGroup()  .addGap(26, 26, 26)  .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(layout.createSequentialGroup()  .addGap(7, 7, 7)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGroup(layout.createSequentialGroup()  .addGap(124, 124, 124)  .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, 402, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addContainerGap(14, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGap(33, 33, 33)  .addComponent(jLabel5)  .addGap(58, 58, 58)  .addComponent(jLabel6)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 223, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(6, 12, Short.MAX\_VALUE))  .addComponent(jPanel1, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>  private void addproductActionPerformed(java.awt.event.ActionEvent evt) {  // TODO add your handling code here:  String vCodigoProducto = codigoproducto.getText();  String vIngredienteProducto = productomostrado.getText();  String vPrecio = precioproducto.getText();  String vCantidad = cantidad.getText();  int intcantidad = Integer.parseInt(vCantidad);  Double precio = Double.valueOf(vPrecio);    try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  st.execute("INSERT INTO ventas (ID\_Producto, Nombre, Precio, Cantidad) "  + "values(" + vCodigoProducto + ",'" + vIngredienteProducto + "', "  + vPrecio + "," + vCantidad + ")");    codigoproducto.setText("");  productomostrado.setText("");  precioproducto.setText("");  cantidad.setText("");  mostrar();    lblsubtotal.setText("El total de su compra es de $" + calcularTotalVentas() + " MXN");  JOptionPane.showMessageDialog(null, "Cobro añadido, correctamente"  + " \n El total de lo añadido es de $ " + intcantidad\*precio + "MXN");      } catch (Exception e) {  System.out.println(e);  }  listadoProductos.setSelectedIndex(-1);    }  private void jLabel2MouseEntered(java.awt.event.MouseEvent evt) {  }  private void jLabel2MouseClicked(java.awt.event.MouseEvent evt) {    try {    Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  ResultSet resultadoDeConteo = st.executeQuery("select count(\*) as count from ventas");  resultadoDeConteo.next();    int count = resultadoDeConteo.getInt("count");    if (count > 0) {  st.executeUpdate("delete from ventas");  System.out.println(count + " registros eliminados de la tabla ventas.");  } else {  System.out.println("No existen registros en la tabla ventas.");  }    } catch (Exception e) {  System.out.println("\nAlgo ha fallado: " + e.getMessage());  }  System.exit(0);  }  private void jLabel4MouseClicked(java.awt.event.MouseEvent evt) {  // TODO add your handling code here:    }  private void jLabel1MouseClicked(java.awt.event.MouseEvent evt) {  // TODO add your handling code here:  Inventario inv = new Inventario();  this.hide();  inv.setVisible(true);  }  private void cantidadActionPerformed(java.awt.event.ActionEvent evt) {    }  private void listadoProductosItemStateChanged(java.awt.event.ItemEvent evt) {    }  private void listadoProductosActionPerformed(java.awt.event.ActionEvent evt) {    String selectedProduct = listadoProductos.getSelectedItem().toString();  String[] datosProducto = selectedProduct.split(" - ");  String selectedProductId = datosProducto[0];  try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("SELECT Precio FROM chocolateria WHERE ID\_Producto = " + selectedProductId);  if (rs.next()) {  String precio = rs.getString("Precio");    precioproducto.setText(precio);  }  } catch (Exception e) {  System.out.println(e.getMessage());  }  codigoproducto.setText(datosProducto[0]);  productomostrado.setText(datosProducto[1]);  }  private void rmvproductActionPerformed(java.awt.event.ActionEvent evt) {    String vCodigoProducto = tablaventas.getValueAt(tablaventas.getSelectedRow(),0).toString();  String vIngredienteProducto = tablaventas.getValueAt(tablaventas.getSelectedRow(),1).toString();  String vPrecio = tablaventas.getValueAt(tablaventas.getSelectedRow(),2).toString();    try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  st.execute("DELETE FROM ventas WHERE ID\_Producto = " + vCodigoProducto + " AND "  + "Nombre = '" + vIngredienteProducto + "' AND "  + "Precio = " + vPrecio);    mostrar();  lblsubtotal.setText("El total de su compra es de $" + calcularTotalVentas() + " MXN");  JOptionPane.showMessageDialog(null, "Cobro eliminado, correctamente");  } catch (Exception e) {  System.out.println(e);  }  listadoProductos.setSelectedIndex(-1);  }  private void cantidadInputMethodTextChanged(java.awt.event.InputMethodEvent evt) {      }  private void productomostradoActionPerformed(java.awt.event.ActionEvent evt) {    }  private void cerrarcuentaActionPerformed(java.awt.event.ActionEvent evt) {  Ticket ticket = new Ticket();  this.hide();  ticket.setVisible(true);    }  private void codigoproductoActionPerformed(java.awt.event.ActionEvent evt) {  }  private void tablaventasMouseClicked(java.awt.event.MouseEvent evt) {    if (evt.getClickCount() == 2) {  int vFilaSeleccionada = tablaventas.getSelectedRow();  codigoproducto.setText(tablaventas.getValueAt(vFilaSeleccionada, 0).toString());  productomostrado.setText(tablaventas.getValueAt(vFilaSeleccionada, 1).toString());  precioproducto.setText(tablaventas.getValueAt(vFilaSeleccionada, 2).toString());  cantidad.setText(tablaventas.getValueAt(vFilaSeleccionada, 3).toString());  }  }  public static void main(String args[]) {    java.awt.EventQueue.invokeLater(new Runnable() {  public void run() {  new CajaDeCobro().setVisible(true);  }  });  }  // Variables declaration - do not modify  private javax.swing.JButton addproduct;  private javax.swing.JTextField cantidad;  private javax.swing.JButton cerrarcuenta;  private javax.swing.JTextField codigoproducto;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel10;  private javax.swing.JLabel jLabel11;  private javax.swing.JLabel jLabel13;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel5;  private javax.swing.JLabel jLabel6;  private javax.swing.JLabel jLabel7;  private javax.swing.JLabel jLabel8;  private javax.swing.JLabel jLabel9;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  private javax.swing.JScrollPane jScrollPane1;  private javax.swing.JLabel lblsubtotal;  private javax.swing.JComboBox<String> listadoProductos;  private javax.swing.JTextField precioproducto;  private javax.swing.JTextField productomostrado;  private javax.swing.JButton rmvproduct;  private javax.swing.JTable tablaventas;  // End of variables declaration  } |

# Xocotepetl.java

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| --- |
| package xocotepetl;  public class Xocotepetl {  public static void main(String[] args) {  Inventario in = new Inventario();  in.setVisible(true);  }  } |

# Ticket.java

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| --- |
| package xocotepetl;  import java.awt.Dimension;  import java.awt.Toolkit;  import java.sql.Connection;  import java.sql.Statement;  import java.sql.ResultSet;  import java.sql.SQLException;  public final class Ticket extends javax.swing.JFrame {  public Ticket() {  initComponents();    centrarPantalla();    System.out.println("El total de ventas es: " + calcularTotalVentas() + "\nha comprado " +contarProductosVendidos());    lblPrecio.setText("Su total ha sido de $" + calcularTotalVentas() + " MXN");  lblProductosComprados.setText("\nHa comprado " + contarProductosVendidos() + " productos");  }    private void centrarPantalla(){  Dimension pantalla = Toolkit.getDefaultToolkit().getScreenSize();  Dimension ventana = this.getSize();  int posX = (pantalla.width - ventana.width) /2;  int posY = (pantalla.height - ventana.height)/2;  this.setLocation(posX, posY);  }    private static double calcularTotalVentas() {  double totalVentas = 0.0;  try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("SELECT SUM(Cantidad \* Precio) AS TotalVentas FROM ventas");  if (rs.next()) {  totalVentas = rs.getDouble("TotalVentas");  }  } catch (SQLException e) {  System.out.println(e);  }  return totalVentas;  }    private static int contarProductosVendidos() {  int numProductosVendidos = 0;  try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("SELECT SUM(Cantidad) AS NumProductosVendidos FROM ventas");  if (rs.next()) {  numProductosVendidos = rs.getInt("NumProductosVendidos");  }  } catch (SQLException e) {  System.out.println(e);  }  return numProductosVendidos;  }    @SuppressWarnings("unchecked")  // <editor-fold defaultstate="collapsed" desc="Generated Code">  private void initComponents() {  jLabel1 = new javax.swing.JLabel();  jSeparator1 = new javax.swing.JSeparator();  jLabel2 = new javax.swing.JLabel();  jSeparator2 = new javax.swing.JSeparator();  lblPrecio = new javax.swing.JLabel();  lblSalida = new javax.swing.JLabel();  lblProductosComprados = new javax.swing.JLabel();  setTitle("Total");  setAlwaysOnTop(true);  setLocation(new java.awt.Point(0, 0));  setUndecorated(true);  jLabel1.setFont(new java.awt.Font("Swis721 BdCnOul BT", 0, 48)); // NOI18N  jLabel1.setText("Salir");  jLabel1.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  jLabel1MouseClicked(evt);  }  });  jLabel2.setFont(new java.awt.Font("Swis721 BdCnOul BT", 0, 48)); // NOI18N  jLabel2.setText("Ticket");  lblPrecio.setFont(new java.awt.Font("Segoe UI Historic", 0, 18)); // NOI18N  lblPrecio.setText("Costo");  lblSalida.setFont(new java.awt.Font("Segoe UI Historic", 0, 18)); // NOI18N  lblSalida.setText("Gracias por su preferencia, ¡Vuelva pronto!");  lblProductosComprados.setFont(new java.awt.Font("Segoe UI Historic", 0, 18)); // NOI18N  lblProductosComprados.setText("Total");  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addContainerGap()  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED\_SIZE, 395, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED\_SIZE, 395, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addGroup(layout.createSequentialGroup()  .addGap(17, 17, 17)  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)  .addComponent(lblPrecio, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(lblSalida, javax.swing.GroupLayout.DEFAULT\_SIZE, 374, Short.MAX\_VALUE)  .addComponent(lblProductosComprados, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))  .addGroup(layout.createSequentialGroup()  .addGap(150, 150, 150)  .addComponent(jLabel1))  .addGroup(layout.createSequentialGroup()  .addGap(135, 135, 135)  .addComponent(jLabel2)))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  );  layout.setVerticalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addContainerGap()  .addComponent(jLabel2)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED\_SIZE, 10, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(33, 33, 33)  .addComponent(lblPrecio)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 20, Short.MAX\_VALUE)  .addComponent(lblProductosComprados)  .addGap(18, 18, 18)  .addComponent(lblSalida)  .addGap(18, 18, 18)  .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED\_SIZE, 10, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(jLabel1)  .addContainerGap())  );  pack();  }// </editor-fold>  private void jLabel1MouseClicked(java.awt.event.MouseEvent evt) {    try {    Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  ResultSet resultadoDeConteo = st.executeQuery("select count(\*) as count from ventas");  resultadoDeConteo.next();    int count = resultadoDeConteo.getInt("count");    if (count > 0) {  st.executeUpdate("delete from ventas");  System.out.println("\n"+count + " registros eliminados de la tabla ventas.");  } else {  System.out.println("\nNo existen registros en la tabla ventas.");  }    } catch (Exception e) {  System.out.println("\nAlgo ha fallado: " + e.getMessage());  }  System.exit(0);  }  public static void main(String args[]) {  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(Ticket.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (InstantiationException ex) {  java.util.logging.Logger.getLogger(Ticket.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (IllegalAccessException ex) {  java.util.logging.Logger.getLogger(Ticket.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  } catch (javax.swing.UnsupportedLookAndFeelException ex) {  java.util.logging.Logger.getLogger(Ticket.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);  }    java.awt.EventQueue.invokeLater(() -> {  new Ticket().setVisible(true);  });  }  // Variables declaration - do not modify  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel2;  private javax.swing.JSeparator jSeparator1;  private javax.swing.JSeparator jSeparator2;  private javax.swing.JLabel lblPrecio;  private javax.swing.JLabel lblProductosComprados;  private javax.swing.JLabel lblSalida;  // End of variables declaration  } |

# Productos.java

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| --- |
| package xocotepetl;  public class Productos extends DatosInventario {    private int ID\_Producto;  private String Nombre;  private String descripcion;  private float precio;  public Productos( int ID\_Producto, String Nombre, String descripcion, float precio) {  super( ID\_Producto,Nombre, precio);    this.ID\_Producto=ID\_Producto;  this.Nombre = Nombre;  this.descripcion = descripcion;  this.precio = precio;    }    @Override  public int getIDproducto() {  return ID\_Producto;  }    @Override  public void setID\_Producto(int ID\_Producto) {  this.ID\_Producto = ID\_Producto;  }      @Override  public String getNombre() {  return Nombre;  }  @Override  public void setNombre(String Nombre) {  this.Nombre = Nombre;  }    public void setDescripcion(String descripcion) {  this.descripcion = descripcion;  }    public String getDescripcion() {  return descripcion;  }  @Override  public float getPrecio() {  return precio;  }  @Override  public void setPrecio(float precio) {  this.precio = precio;  }  } |

## Inventario.java

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| --- |
| package xocotepetl;  import java.awt.Component;  import java.awt.HeadlessException;  import javax.swing.table.DefaultTableModel;  import java.sql.Connection;  import java.sql.ResultSet;  import java.sql.SQLException;  import java.sql.Statement;  import javax.swing.JOptionPane;  import javax.swing.JTable;  import javax.swing.table.TableCellRenderer;  import javax.swing.table.TableColumn;  public class Inventario extends javax.swing.JFrame {  Connection con;    public Inventario() {    this.con = Conexion\_interac.getConexion();  System.out.println("Cargando tabla");  initComponents();  mostrar();    }    private void mostrar() {  tabla.setAutoResizeMode(JTable.AUTO\_RESIZE\_OFF);    for (int column = 0; column < tabla.getColumnCount(); column++)  {  TableColumn tableColumn = tabla.getColumnModel().getColumn(column);  int preferredWidth = tableColumn.getMinWidth();  int maxWidth = tableColumn.getMaxWidth();  for (int row = 0; row < tabla.getRowCount(); row++)  {  TableCellRenderer cellRenderer = tabla.getCellRenderer(row, column);  Component c = tabla.prepareRenderer(cellRenderer, row, column);  int width = c.getPreferredSize().width + tabla.getIntercellSpacing().width;  preferredWidth = Math.max(preferredWidth, width);  if (preferredWidth >= maxWidth)  {  preferredWidth = maxWidth;  break;  }  }  tableColumn.setPreferredWidth(preferredWidth);  }  DefaultTableModel modelo = new DefaultTableModel() {  @Override  public boolean isCellEditable(int row, int column) {  return false;  }  };    modelo.setColumnIdentifiers(new String[]{"ID\_Producto", "Nombre", "Descripcion", "Precio"});    try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  ResultSet rs = st.executeQuery("SELECT ID\_Producto, Nombre, Descripcion, Precio FROM chocolateria");      while (rs.next()) {  Productos filaProducto = new Productos(rs.getInt("ID\_Producto"),rs.getString("Nombre"),rs.getString("Descripcion"), rs.getFloat("Precio"));    Object producto[] = {filaProducto.getIDproducto(),filaProducto.getNombre(),filaProducto.getDescripcion(),filaProducto.getPrecio()};    modelo.addRow(producto);  }    tabla.setModel(modelo);  int vAnchoColumna = 0;  int vNuevoAnchoColumna = 0;    for (int col = 0; col < tabla.getColumnCount(); col++) {  vAnchoColumna = 0;  for (int fila = 0; fila < tabla.getRowCount(); fila++) {  if (tabla.getValueAt(fila, col).toString().length() > 47) {  vNuevoAnchoColumna = 435;  } else {  vNuevoAnchoColumna = 10 \* tabla.getValueAt(fila, col).toString().length();  }  if (vNuevoAnchoColumna>vAnchoColumna) {  vAnchoColumna = vNuevoAnchoColumna;  } else {  vAnchoColumna = vAnchoColumna;  }  }  tabla.getColumnModel().getColumn(col).setPreferredWidth(vAnchoColumna);    }  tabla.getColumnModel().getColumn(0).setMinWidth(30);  tabla.getColumnModel().getColumn(1).setMinWidth(45);  tabla.getColumnModel().getColumn(2).setMinWidth(60);  tabla.getColumnModel().getColumn(3).setMinWidth(30);    } catch (SQLException e) {  System.out.println(e);    }  }    @SuppressWarnings("unchecked")  // <editor-fold defaultstate="collapsed" desc="Generated Code">  private void initComponents() {  jPanel1 = new javax.swing.JPanel();  jLabel1 = new javax.swing.JLabel();  jLabel2 = new javax.swing.JLabel();  jLabel4 = new javax.swing.JLabel();  jLabel5 = new javax.swing.JLabel();  jLabel6 = new javax.swing.JLabel();  jPanel2 = new javax.swing.JPanel();  addproduct = new javax.swing.JButton();  rmvproduct = new javax.swing.JButton();  editproduct = new javax.swing.JButton();  jLabel8 = new javax.swing.JLabel();  jLabel9 = new javax.swing.JLabel();  jLabel10 = new javax.swing.JLabel();  nombreproducto = new javax.swing.JTextField();  descripcionproducto = new javax.swing.JTextField();  jLabel13 = new javax.swing.JLabel();  precio = new javax.swing.JTextField();  codepr = new javax.swing.JLabel();  ID\_Productoin = new javax.swing.JTextField();  jScrollPane1 = new javax.swing.JScrollPane();  tabla = new javax.swing.JTable();  setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);  setUndecorated(true);  jPanel1.setBackground(new java.awt.Color(184, 124, 61));  jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 36)); // NOI18N  jLabel1.setText("Inventario");  jLabel2.setFont(new java.awt.Font("Segoe UI", 0, 36)); // NOI18N  jLabel2.setText("Salir");  jLabel2.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  jLabel2MouseClicked(evt);  }  public void mouseEntered(java.awt.event.MouseEvent evt) {  jLabel2MouseEntered(evt);  }  });  jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 36)); // NOI18N  jLabel4.setText("Caja de cobro");  jLabel4.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  jLabel4MouseClicked(evt);  }  });  javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);  jPanel1.setLayout(jPanel1Layout);  jPanel1Layout.setHorizontalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addContainerGap()  .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 239, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 179, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(16, 16, 16)  .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 157, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addContainerGap(32, Short.MAX\_VALUE))  );  jPanel1Layout.setVerticalGroup(  jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel1Layout.createSequentialGroup()  .addGap(80, 80, 80)  .addComponent(jLabel1)  .addGap(34, 34, 34)  .addComponent(jLabel4)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 445, Short.MAX\_VALUE)  .addComponent(jLabel2)  .addGap(25, 25, 25))  );  jLabel5.setFont(new java.awt.Font("Lucida Fax", 1, 52)); // NOI18N  jLabel5.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);  jLabel5.setText("Inventario");  jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));  jPanel2.setToolTipText("Producto");  addproduct.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N  addproduct.setText("Añadir");  addproduct.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  addproductActionPerformed(evt);  }  });  rmvproduct.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N  rmvproduct.setText("Eliminar");  rmvproduct.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  rmvproductActionPerformed(evt);  }  });  editproduct.setFont(new java.awt.Font("Segoe UI", 0, 14)); // NOI18N  editproduct.setText("Editar");  editproduct.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  editproductActionPerformed(evt);  }  });  jLabel8.setText("Nombre");  jLabel9.setText("Precio");  jLabel10.setText("Descripción");  nombreproducto.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  nombreproductoActionPerformed(evt);  }  });  descripcionproducto.addActionListener(new java.awt.event.ActionListener() {  public void actionPerformed(java.awt.event.ActionEvent evt) {  descripcionproductoActionPerformed(evt);  }  });  jLabel13.setText("$");  codepr.setText("Código");  javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);  jPanel2.setLayout(jPanel2Layout);  jPanel2Layout.setHorizontalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addGap(14, 14, 14)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addComponent(descripcionproducto, javax.swing.GroupLayout.PREFERRED\_SIZE, 518, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)  .addComponent(rmvproduct))  .addGroup(jPanel2Layout.createSequentialGroup()  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(jLabel10, javax.swing.GroupLayout.PREFERRED\_SIZE, 65, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(codepr, javax.swing.GroupLayout.PREFERRED\_SIZE, 52, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(ID\_Productoin, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 153, Short.MAX\_VALUE)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(nombreproducto, javax.swing.GroupLayout.PREFERRED\_SIZE, 380, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jLabel8, javax.swing.GroupLayout.PREFERRED\_SIZE, 65, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(18, 18, 18)  .addComponent(jLabel13, javax.swing.GroupLayout.PREFERRED\_SIZE, 17, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(2, 2, 2)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(precio, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jLabel9, javax.swing.GroupLayout.PREFERRED\_SIZE, 65, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addGap(156, 156, 156)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addComponent(editproduct, javax.swing.GroupLayout.Alignment.TRAILING)  .addComponent(addproduct, javax.swing.GroupLayout.Alignment.TRAILING))))  .addGap(85, 85, 85))  );  jPanel2Layout.setVerticalGroup(  jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addGap(14, 14, 14)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(jLabel8)  .addComponent(jLabel9)  .addComponent(addproduct)  .addComponent(codepr))  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addGap(15, 15, 15)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  .addComponent(nombreproducto, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(precio, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addComponent(jLabel13)  .addComponent(editproduct)))  .addGroup(jPanel2Layout.createSequentialGroup()  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(ID\_Productoin, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  .addGroup(jPanel2Layout.createSequentialGroup()  .addComponent(jLabel10)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)  .addComponent(descripcionproducto, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(rmvproduct))  .addContainerGap(31, Short.MAX\_VALUE))  );  tabla.addMouseListener(new java.awt.event.MouseAdapter() {  public void mouseClicked(java.awt.event.MouseEvent evt) {  tablaMouseClicked(evt);  }  });  jScrollPane1.setViewportView(tabla);  javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  getContentPane().setLayout(layout);  layout.setHorizontalGroup(  layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGap(33, 33, 33)  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 1044, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)  .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addGroup(layout.createSequentialGroup()  .addGap(309, 309, 309)  .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, 353, 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()  .addGap(40, 40, 40)  .addComponent(jLabel5)  .addGap(51, 51, 51)  .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  .addGroup(layout.createSequentialGroup()  .addGap(63, 63, 63)  .addComponent(jLabel6))  .addGroup(layout.createSequentialGroup()  .addGap(18, 18, 18)  .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 345, javax.swing.GroupLayout.PREFERRED\_SIZE)))  .addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))  .addGroup(layout.createSequentialGroup()  .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)  .addGap(0, 0, Short.MAX\_VALUE))  );  pack();  setLocationRelativeTo(null);  }// </editor-fold>  private void addproductActionPerformed(java.awt.event.ActionEvent evt) {  String vID\_Producto = ID\_Productoin.getText();  String vNombreProducto = nombreproducto.getText();  String vDescripcionProducto = descripcionproducto.getText();  String vPrecio = precio.getText();    try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  st.execute("INSERT INTO `Chocolateria` (ID\_Producto, Nombre, Descripcion, Precio) VALUES ("+ vID\_Producto +",'"+ vNombreProducto + "','" + vDescripcionProducto +"', " + vPrecio +")");  ID\_Productoin.setText("");  nombreproducto.setText("");  descripcionproducto.setText("");  precio.setText("");  mostrar();    JOptionPane.showMessageDialog(null, "Producto añadido, correctamente");  } catch (Exception e) {  System.out.println(e);  }  }  private void editproductActionPerformed(java.awt.event.ActionEvent evt) {  String vID\_Producto = ID\_Productoin.getText();  String vNombreProducto = nombreproducto.getText();  String vDescripcionProducto = descripcionproducto.getText();  String vPrecio = precio.getText();    try {  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  st.execute("UPDATE chocolateria SET Nombre = '" + vNombreProducto + "', Descripcion = '" + vDescripcionProducto + "', Precio = " + vPrecio + " WHERE ID\_Producto = " + vID\_Producto );  ID\_Productoin.setText("");  nombreproducto.setText("");  descripcionproducto.setText("");  precio.setText("");  mostrar();  JOptionPane.showMessageDialog(null, "Producto editado, correctamente");  } catch (HeadlessException | SQLException e) {  System.out.println(e);  }  }  private void descripcionproductoActionPerformed(java.awt.event.ActionEvent evt) {  }  private void jLabel2MouseEntered(java.awt.event.MouseEvent evt) {  }  private void jLabel2MouseClicked(java.awt.event.MouseEvent evt) {    System.exit(0);  }  private void jLabel4MouseClicked(java.awt.event.MouseEvent evt) {  CajaDeCobro cj = new CajaDeCobro();  this.hide();  cj.setVisible(true);  }  private void nombreproductoActionPerformed(java.awt.event.ActionEvent evt) {  String nombre = nombreproducto.getText();  System.out.println("El nombre del producto es \n"+nombre);  }  private void tablaMouseClicked(java.awt.event.MouseEvent evt) {    if (evt.getClickCount() == 2) {  int vFilaSeleccionada = tabla.getSelectedRow();  ID\_Productoin.setText(tabla.getValueAt(vFilaSeleccionada, 0).toString());  nombreproducto.setText(tabla.getValueAt(vFilaSeleccionada, 1).toString());  descripcionproducto.setText(tabla.getValueAt(vFilaSeleccionada, 2).toString());  precio.setText(tabla.getValueAt(vFilaSeleccionada, 3).toString());  }  }  private void rmvproductActionPerformed(java.awt.event.ActionEvent evt) {    try {  int vFilaSeleccionada = tabla.getSelectedRow();  Connection con = Conexion\_interac.getConexion();  Statement st = con.createStatement();  st.execute("DELETE FROM `Chocolateria` WHERE ID\_Producto = " + tabla.getValueAt(vFilaSeleccionada, 0));  ID\_Productoin.setText("");  nombreproducto.setText("");  descripcionproducto.setText("");  precio.setText("");  mostrar();  JOptionPane.showMessageDialog(null, "Producto eliminado, correctamente");  System.out.println("\nSe ha borrado un producto exitosamenre \n");  } catch (Exception e) {  System.out.println(e);  }  }    public static void main(String args[]) {    java.awt.EventQueue.invokeLater(new Runnable() {  public void run() {  new Inventario().setVisible(true);  }  });  }  // Variables declaration - do not modify  private javax.swing.JTextField ID\_Productoin;  private javax.swing.JButton addproduct;  private javax.swing.JLabel codepr;  private javax.swing.JTextField descripcionproducto;  private javax.swing.JButton editproduct;  private javax.swing.JLabel jLabel1;  private javax.swing.JLabel jLabel10;  private javax.swing.JLabel jLabel13;  private javax.swing.JLabel jLabel2;  private javax.swing.JLabel jLabel4;  private javax.swing.JLabel jLabel5;  private javax.swing.JLabel jLabel6;  private javax.swing.JLabel jLabel8;  private javax.swing.JLabel jLabel9;  private javax.swing.JPanel jPanel1;  private javax.swing.JPanel jPanel2;  private javax.swing.JScrollPane jScrollPane1;  private javax.swing.JTextField nombreproducto;  private javax.swing.JTextField precio;  private javax.swing.JButton rmvproduct;  private javax.swing.JTable tabla;  // End of variables declaration  } |

## DatosInventario.java

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| --- |
| package xocotepetl;  public class DatosInventario {    private int ID\_Producto;  private String Nombre;  private float precio;  public DatosInventario(int ID\_Producto, String Nombre, float precio) {  this.ID\_Producto=ID\_Producto;    this.Nombre = Nombre;  this.precio = precio;  }    public int getIDproducto() {  return ID\_Producto;  }  public void setID\_Producto(int ID\_Producto) {  this.ID\_Producto = ID\_Producto;  }    public String getNombre() {  return Nombre;  }  public void setNombre(String Nombre) {  this.Nombre = Nombre;  }  public float getPrecio() {  return precio;  }  public void setPrecio(float precio) {  this.precio = precio;  }    } |

## Conexion\_interac.java

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| --- |
| package xocotepetl;  import static java.lang.System.exit;  import java.sql.Connection;  import java.sql.DriverManager;  import java.sql.ResultSet;  import java.sql.SQLException;  import java.sql.Statement;  public class Conexion\_interac {    public static final String DRIVER ="com.mysql.jdbc.Driver";  public static final String URL = "jdbc:mysql://localhost:3306/chocolateria";  public static final String USER = "root";  public static final String CLAVE = "D3PA$v&q34z5n";    public static Connection getConexion(){  Connection con = null;  System.out.println("Conectando con la base de datos");  try{  Class.forName("com.mysql.cj.jdbc.Driver");  con = DriverManager.getConnection(URL, USER, CLAVE);  System.out.println("Conexion establecida");  }catch(ClassNotFoundException | SQLException e){  System.out.println("Ha habido un error");  System.out.println("Error: " + e.getMessage());  exit(0);    }  return con;  }    public static ResultSet getTable(String consulta) {  Connection con = null;  Statement st;  ResultSet datos = null;  try {  con = getConexion();  st = con.createStatement();  datos = st.executeQuery(consulta);  System.out.println("Consulta de tabla buena");  } catch (SQLException e) {  System.out.println("Error: " + e.getMessage());  }  return datos;  }    } |