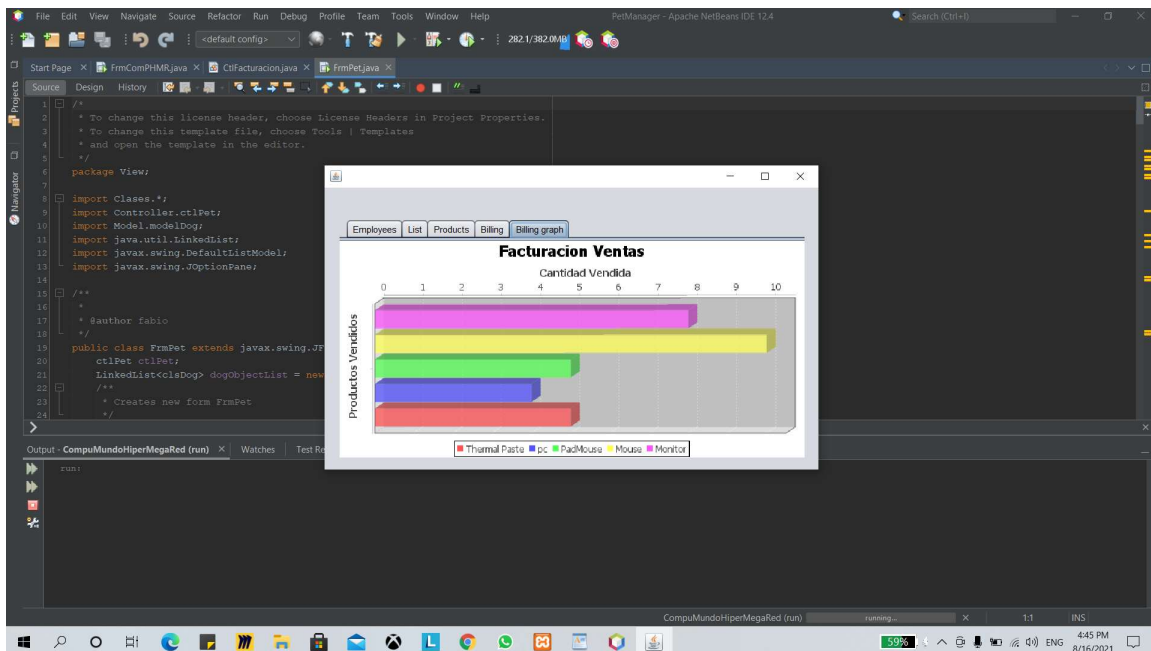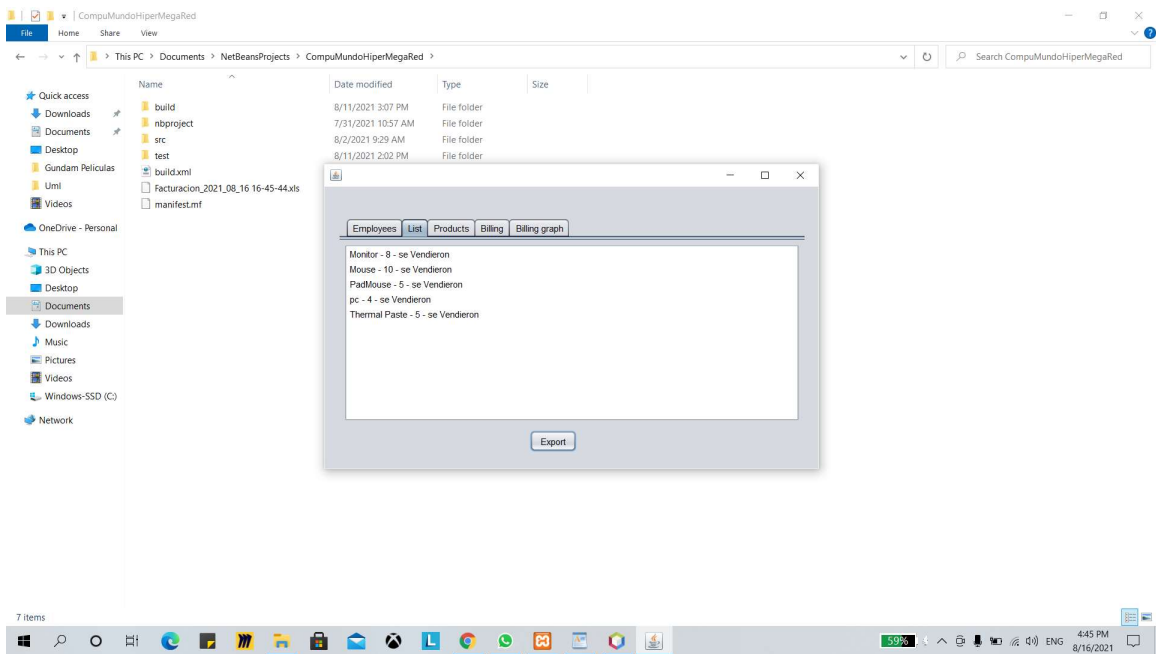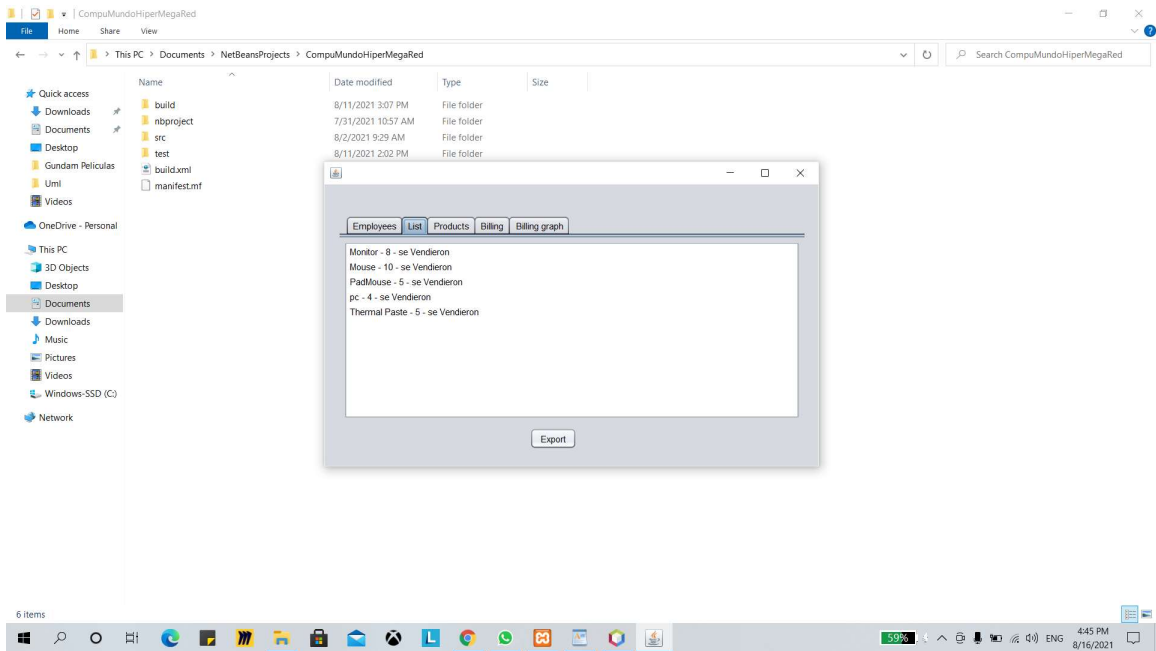# RETO SEMANA 7

Para esta semana 7 se avanzo en la aplicacion mision tic, se agrego el boton de exportar donde se crea un documento xls donde se exporta la tabla de la base de datos la facturacion, y se agrego una pestaña de graficos.

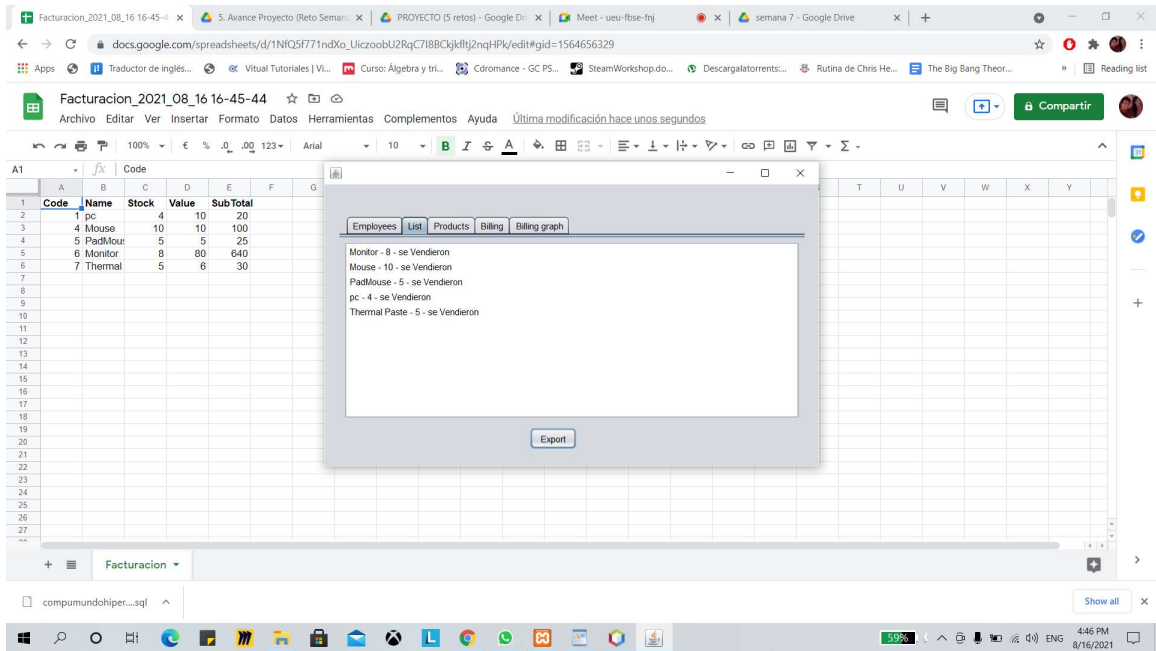## VIDEO

https://drive.google.com/file/d/152uqrcgoAvwjquNh1PRnB3H9NmNa8zJL/view?usp=sharing

CAPTURAS

CODIGO

```
/*

 * 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 View;


import javax.swing.JOptionPane;

import Class.*;

import Controller.*;
```

```java
import java.awt.BorderLayout;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import java.util.LinkedList;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.DefaultListModel;

import org.apache.poi.hssf.usermodel.*;

import org.apache.poi.ss.usermodel.CellStyle;

import org.jfree.chart.ChartFactory;

import org.jfree.chart.ChartPanel;

import org.jfree.chart.JFreeChart;

import org.jfree.chart.plot.PlotOrientation;

import org.jfree.data.category.DefaultCategoryDataset;

import org.jfree.data.general.DefaultPieDataset;

import java.time.LocalDateTime;

import java.time.format.DateTimeFormatter;
```

/**

```java
 *

 * @author fabio

 */

public class FrmComPHMR extends javax.swing.JFrame {


   CtlCompu CtlCompu;

   LinkedList<ClassFacturacion> listFacturacion = new LinkedList<>();

   CtlFacturacion CtlFacturacion;


   /**

    * Creates new form FrmComPHMR

    */

   public FrmComPHMR() {

     initComponents();

     this.RefreshGraphicFacturacion();

     this.FillJlist();

//     this.listFacturacion = CtlFacturacion.ListaComFacturacion();

   }


   private void RefreshGraphicFacturacion(){

     CtlFacturacion CtlFacturacion = new CtlFacturacion();
```

```java
    LinkedList<ClassListFacturacion> report =
CtlFacturacion.ListaFacturacion();

    DefaultCategoryDataset dataset = new DefaultCategoryDataset();

    for (ClassListFacturacion record : report) {

       dataset.addValue(record.getStock(), record.getName(), "");

    }
//     JFreeChart chart = ChartFactory.createPieChart("Facturacion Ventas
por Producto", dataset,true,true,true);

    JFreeChart chart = ChartFactory.createBarChart3D("Facturacion
Ventas", "Productos Vendidos", "Cantidad Vendida", dataset,
PlotOrientation.HORIZONTAL, true, true, false);

    ChartPanel panel = new ChartPanel(chart);

    panel.setMouseWheelEnabled(true);

    jPGraphicFact.setLayout(new java.awt.BorderLayout());

    jPGraphicFact.add(panel, BorderLayout.CENTER);

    jPGraphicFact.validate();

    pack();

    repaint();

 }
```

```java
/**
 * 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() {

    jTextField1 = new javax.swing.JTextField();
    jProgressBar1 = new javax.swing.JProgressBar();
    jTextField2 = new javax.swing.JTextField();
    jSpinner1 = new javax.swing.JSpinner();
    jTabbedPane1 = new javax.swing.JTabbedPane();
    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    txtEmpName = new javax.swing.JTextField();
```

```java
txtEmpEmail = new javax.swing.JTextField();

txtEmpPassword = new javax.swing.JTextField();

cbAdmin = new javax.swing.JCheckBox();

jBCreateEmp = new javax.swing.JButton();

jBSearchEmp = new javax.swing.JButton();

jBUpdateEmp = new javax.swing.JButton();

jBDelete = new javax.swing.JButton();

jLabel4 = new javax.swing.JLabel();

Id_person = new javax.swing.JLabel();

jScrollPane3 = new javax.swing.JScrollPane();

IdCode = new javax.swing.JTextPane();

jPanel3 = new javax.swing.JPanel();

jScrollPane1 = new javax.swing.JScrollPane();

jListFact = new javax.swing.JList<>();

jButton3 = new javax.swing.JButton();

jPanel2 = new javax.swing.JPanel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel7 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

txtNameProd = new javax.swing.JTextField();
```

```java
txtStockProd = new javax.swing.JTextField();

txtValueProd = new javax.swing.JTextField();

txtIdProd = new javax.swing.JTextField();

jBCreateProduct = new javax.swing.JButton();

jBSearchProduct = new javax.swing.JButton();

jBEditProduct = new javax.swing.JButton();

jBEditElimate = new javax.swing.JButton();

jPanel4 = new javax.swing.JPanel();

jLabel9 = new javax.swing.JLabel();

txtNameProd1 = new javax.swing.JTextField();

jLabel10 = new javax.swing.JLabel();

txtAmount = new javax.swing.JTextField();

jLabel11 = new javax.swing.JLabel();

txtValueProd1 = new javax.swing.JTextField();

jLabel12 = new javax.swing.JLabel();

txtIdProd1 = new javax.swing.JTextField();

jBSearchFacturacion = new javax.swing.JButton();

jLabel13 = new javax.swing.JLabel();

txtSubTotal = new javax.swing.JTextField();

jLabel14 = new javax.swing.JLabel();

txtTotal = new javax.swing.JTextField();
```

```java
jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jPGraphicFact = new javax.swing.JPanel();


jTextField1.setText("jTextField1");


jTextField2.setText("jTextField2");


setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);


jLabel1.setText("Name");


jLabel2.setText("Password");


jLabel3.setText("Email");


txtEmpName.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtEmpNameActionPerformed(evt);
    }
```

```java
        });

        txtEmpEmail.addActionListener(new java.awt.event.ActionListener() {

            public void actionPerformed(java.awt.event.ActionEvent evt) {

                txtEmpEmailActionPerformed(evt);

            }

        });


        txtEmpPassword.addActionListener(new
java.awt.event.ActionListener() {

            public void actionPerformed(java.awt.event.ActionEvent evt) {

                txtEmpPasswordActionPerformed(evt);

            }

        });


        cbAdmin.setText("Admin");

        cbAdmin.addActionListener(new java.awt.event.ActionListener() {

            public void actionPerformed(java.awt.event.ActionEvent evt) {

                cbAdminActionPerformed(evt);

            }

        });
```

```java
jBCreateEmp.setText("Create");

jBCreateEmp.addActionListener(new java.awt.event.ActionListener() {

  public void actionPerformed(java.awt.event.ActionEvent evt) {

    jBCreateEmpActionPerformed(evt);

  }

});


jBSearchEmp.setText("Search");

jBSearchEmp.addActionListener(new java.awt.event.ActionListener() {

  public void actionPerformed(java.awt.event.ActionEvent evt) {

    jBSearchEmpActionPerformed(evt);

  }

});


jBUpdateEmp.setText("Update");

jBUpdateEmp.addActionListener(new java.awt.event.ActionListener() {

  public void actionPerformed(java.awt.event.ActionEvent evt) {

    jBUpdateEmpActionPerformed(evt);

  }

});
```

```java
jBDelete.setText("Delete");

jBDelete.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jBDeleteActionPerformed(evt);

    }

});


jLabel4.setText("ID");


jScrollPane3.setViewportView(IdCode);


javax.swing.GroupLayout jPanel1Layout = new
javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.TRAILING)
```

```
.addGroup(jPanel1Layout.createSequentialGroup()

    .addContainerGap()

    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.LEADING)

        .addGroup(jPanel1Layout.createSequentialGroup()

            .addComponent(jLabel3,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addGap(29, 29, 29)

                .addComponent(txtEmpEmail))

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addComponent(jLabel2,
javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED)

                    .addComponent(txtEmpPassword))

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addComponent(cbAdmin,
javax.swing.GroupLayout.PREFERRED_SIZE, 85,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addGap(0, 0, Short.MAX_VALUE))

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addComponent(jLabel1,
```

```
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)

                .addComponent(txtEmpName,
javax.swing.GroupLayout.PREFERRED_SIZE, 239,
javax.swing.GroupLayout.PREFERRED_SIZE)))

            .addGap(97, 97, 97)

            .addComponent(jLabel4,
javax.swing.GroupLayout.PREFERRED_SIZE, 21,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel1Layout.createSequentialGroup()

            .addGap(64, 64, 64)

            .addComponent(jBCreateEmp)

            .addGap(18, 18, 18)

            .addComponent(jBSearchEmp)

            .addGap(18, 18, 18)

            .addComponent(jBUpdateEmp)

            .addGap(18, 18, 18)

            .addComponent(jBDelete)))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.
RELATED)
```

```java
                .addComponent(jScrollPane3,
javax.swing.GroupLayout.PREFERRED_SIZE, 87,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.
RELATED, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

                .addComponent(Id_person,
javax.swing.GroupLayout.PREFERRED_SIZE, 63,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addGap(73, 73, 73))

        );

        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)

            .addGroup(jPanel1Layout.createSequentialGroup()

                .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.LEADING)

                    .addGroup(jPanel1Layout.createSequentialGroup()

                        .addGap(9, 9, 9)

                        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.BASELINE)

                            .addComponent(jLabel1)

                            .addComponent(txtEmpName,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
```

```
javax.swing.GroupLayout.PREFERRED_SIZE)))

                .addGroup(jPanel1Layout.createSequentialGroup()

                    .addGap(22, 22, 22)

                    .addGroup(jPanel1Layout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.LEADING)

                        .addComponent(jLabel4,
javax.swing.GroupLayout.Alignment.TRAILING)

                        .addComponent(Id_person)))

                .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel1Layout.createSequentialGroup()

                    .addContainerGap()

                    .addComponent(jScrollPane3,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.
RELATED)

            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

                .addComponent(jLabel3)

                .addComponent(txtEmpEmail,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.
```

```
UNRELATED)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

            .addComponent(jLabel2)

            .addComponent(txtEmpPassword,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(27, 27, 27)

        .addComponent(cbAdmin)

        .addGap(42, 42, 42)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

            .addComponent(jBCreateEmp)

            .addComponent(jBSearchEmp)

            .addComponent(jBUpdateEmp)

            .addComponent(jBDelete))

        .addContainerGap(75, Short.MAX_VALUE))
    );


    jTabbedPane1.addTab("Employees", jPanel1);


    jListFact.setModel(new javax.swing.AbstractListModel<String>() {
```

```java
        String[] strings = { "Item 1", "Item 2", "Item 3", "Item 4", "Item 5" };

        public int getSize() { return strings.length; }

        public String getElementAt(int i) { return strings[i]; }

    });

    jScrollPane1.setViewportView(jListFact);


    jButton3.setText("Export");

    jButton3.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            jButton3ActionPerformed(evt);

        }

    });


    javax.swing.GroupLayout jPanel3Layout = new
javax.swing.GroupLayout(jPanel3);

    jPanel3.setLayout(jPanel3Layout);

    jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)

        .addGroup(jPanel3Layout.createSequentialGroup()

            .addContainerGap()
```

```
            .addComponent(jScrollPane1,
javax.swing.GroupLayout.DEFAULT_SIZE, 608, Short.MAX_VALUE)

            .addContainerGap())

        .addGroup(jPanel3Layout.createSequentialGroup()

            .addGap(254, 254, 254)

            .addComponent(jButton3)

            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))

    );

    jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)

        .addGroup(jPanel3Layout.createSequentialGroup()

            .addContainerGap()

            .addComponent(jScrollPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 236,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.
UNRELATED)

            .addComponent(jButton3)

            .addContainerGap(10, Short.MAX_VALUE))

    );
```

```java
jTabbedPane1.addTab("List", jPanel3);


jLabel5.setText("Name");


jLabel6.setText("Stock");


jLabel7.setText("Value");


jLabel8.setText("ID");


jBCreateProduct.setText("Create");

jBCreateProduct.addActionListener(new
java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

       jBCreateProductActionPerformed(evt);

    }

});


jBSearchProduct.setText("Search");

jBSearchProduct.addActionListener(new
java.awt.event.ActionListener() {
```

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

            jBSearchProductActionPerformed(evt);

        }

    });


    jBEditProduct.setText("Edit");

    jBEditProduct.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            jBEditProductActionPerformed(evt);

        }

    });


    jBEditElimate.setText("Delate");

    jBEditElimate.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            jBEditElimateActionPerformed(evt);

        }

    });


    javax.swing.GroupLayout jPanel2Layout = new
javax.swing.GroupLayout(jPanel2);
```

```java
jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(jPanel2Layout.createSequentialGroup()

        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(jPanel2Layout.createSequentialGroup()

                .addContainerGap()

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                    .addGroup(jPanel2Layout.createSequentialGroup()

                        .addComponent(jLabel5,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

                        .addComponent(txtNameProd,
javax.swing.GroupLayout.PREFERRED_SIZE, 160,
javax.swing.GroupLayout.PREFERRED_SIZE))

                    .addGroup(jPanel2Layout.createSequentialGroup()

                        .addComponent(jLabel6,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED)

                        .addComponent(txtStockProd))

                    .addGroup(jPanel2Layout.createSequentialGroup()

                        .addComponent(jLabel7,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED)

                        .addComponent(txtValueProd))

                    .addGroup(jPanel2Layout.createSequentialGroup()

                        .addComponent(jLabel8,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED)

                        .addComponent(txtIdProd,
javax.swing.GroupLayout.PREFERRED_SIZE, 81,
javax.swing.GroupLayout.PREFERRED_SIZE))))

                .addGroup(jPanel2Layout.createSequentialGroup()

                    .addGap(83, 83, 83)

                    .addComponent(jBCreateProduct)

                    .addGap(18, 18, 18)

                    .addComponent(jBSearchProduct)
```

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

                .addComponent(jBEditProduct)

                .addGap(18, 18, 18)

                .addComponent(jBEditElimate)))

            .addContainerGap(195, Short.MAX_VALUE))

    );

    jPanel2Layout.setVerticalGroup(


jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)

        .addGroup(jPanel2Layout.createSequentialGroup()

            .addGap(29, 29, 29)

            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

                .addComponent(jLabel5)

                .addComponent(txtNameProd,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGap(18, 18, 18)

            .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

                .addComponent(jLabel6)

                .addComponent(txtStockProd,
```

```java
                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGap(18, 18, 18)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

                    .addComponent(jLabel7)

                    .addComponent(txtValueProd,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGap(18, 18, 18)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

                    .addComponent(jLabel8)

                    .addComponent(txtIdProd,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGap(35, 35, 35)

                .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

                    .addComponent(jBCreateProduct)

                    .addComponent(jBSearchProduct)

                    .addComponent(jBEditProduct)
```

```java
            .addComponent(jBEditElimate))

        .addContainerGap(58, Short.MAX_VALUE))
    );


    jTabbedPane1.addTab("Products", jPanel2);


    jLabel9.setText("Name");


    txtNameProd1.addActionListener(new java.awt.event.ActionListener()
{

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            txtNameProd1ActionPerformed(evt);

        }
    });


    jLabel10.setText("Amount");


    jLabel11.setText("Value");


    jLabel12.setText("ID");
```

```java
jBSearchFacturacion.setText("Calcular");

jBSearchFacturacion.addActionListener(new
java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        jBSearchFacturacionActionPerformed(evt);

    }

});


jLabel13.setText("Subtotal");


txtSubTotal.addActionListener(new java.awt.event.ActionListener() {

    public void actionPerformed(java.awt.event.ActionEvent evt) {

        txtSubTotalActionPerformed(evt);

    }

});


jLabel14.setText("Total");


jButton1.setText("Registrar");

jButton1.addActionListener(new java.awt.event.ActionListener() {

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

```java
        jButton1ActionPerformed(evt);

      }

    });


    jButton2.setText("Calcular Total");

    jButton2.addActionListener(new java.awt.event.ActionListener() {

      public void actionPerformed(java.awt.event.ActionEvent evt) {

        jButton2ActionPerformed(evt);

      }

    });


    javax.swing.GroupLayout jPanel4Layout = new
javax.swing.GroupLayout(jPanel4);

    jPanel4.setLayout(jPanel4Layout);

    jPanel4Layout.setHorizontalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)

        .addGroup(jPanel4Layout.createSequentialGroup()

          .addContainerGap()

          .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.LEADING)
```

```
.addGroup(jPanel4Layout.createSequentialGroup()

    .addGap(74, 74, 74)

    .addComponent(jButton1)

    .addGap(18, 18, 18)

    .addComponent(jBSearchFacturacion)

    .addGap(18, 18, 18)

    .addComponent(jButton2))

.addGroup(jPanel4Layout.createSequentialGroup()

    .addGroup(jPanel4Layout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.LEADING)

        .addGroup(jPanel4Layout.createSequentialGroup()

            .addComponent(jLabel11,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED)

                .addComponent(txtValueProd1,
javax.swing.GroupLayout.PREFERRED_SIZE, 160,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGroup(jPanel4Layout.createSequentialGroup()

            .addComponent(jLabel12,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

                .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
```

```
cement.RELATED)

                    .addComponent(txtIdProd1,
javax.swing.GroupLayout.PREFERRED_SIZE, 81,
javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGroup(jPanel4Layout.createSequentialGroup()

                    .addComponent(jLabel9,
javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addGap(18, 18, 18)

                    .addComponent(txtNameProd1,
javax.swing.GroupLayout.PREFERRED_SIZE, 160,
javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGroup(jPanel4Layout.createSequentialGroup()

                    .addComponent(jLabel10,
javax.swing.GroupLayout.PREFERRED_SIZE, 49,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED)

                    .addComponent(txtAmount,
javax.swing.GroupLayout.PREFERRED_SIZE, 160,
javax.swing.GroupLayout.PREFERRED_SIZE)))

                .addGap(58, 58, 58)

            .addGroup(jPanel4Layout.createParallelGroup(javax.swing.Gr
oupLayout.Alignment.LEADING)

                .addGroup(jPanel4Layout.createSequentialGroup()
```

```
                        .addComponent(jLabel13,
javax.swing.GroupLayout.PREFERRED_SIZE, 61,
javax.swing.GroupLayout.PREFERRED_SIZE)

                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED)

                        .addComponent(txtSubTotal,
javax.swing.GroupLayout.PREFERRED_SIZE, 164,
javax.swing.GroupLayout.PREFERRED_SIZE))

                    .addGroup(jPanel4Layout.createSequentialGroup()

                        .addComponent(jLabel14,
javax.swing.GroupLayout.PREFERRED_SIZE, 43,
javax.swing.GroupLayout.PREFERRED_SIZE)

                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPla
cement.RELATED)

                        .addComponent(txtTotal,
javax.swing.GroupLayout.PREFERRED_SIZE, 132,
javax.swing.GroupLayout.PREFERRED_SIZE)))))

            .addContainerGap(110, Short.MAX_VALUE))
    );

    jPanel4Layout.setVerticalGroup(

jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LE
ADING)

        .addGroup(jPanel4Layout.createSequentialGroup()

            .addGap(25, 25, 25)
```

```
        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

            .addComponent(jLabel9)

            .addComponent(txtNameProd1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jLabel13)

            .addComponent(txtSubTotal,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.
RELATED)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.LEADING)

            .addGroup(jPanel4Layout.createParallelGroup(javax.swing.Grou
pLayout.Alignment.BASELINE)

                .addComponent(jLabel10)

                .addComponent(txtAmount,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

            .addGroup(jPanel4Layout.createParallelGroup(javax.swing.Grou
pLayout.Alignment.BASELINE)

                .addComponent(jLabel14,
```

```java
javax.swing.GroupLayout.PREFERRED_SIZE, 16,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(txtTotal,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGap(24, 24, 24)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

            .addComponent(jLabel11)

            .addComponent(txtValueProd1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)

            .addComponent(jLabel12)

            .addComponent(txtIdProd1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(35, 35, 35)

        .addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupL
ayout.Alignment.BASELINE)
```

```java
            .addComponent(jBSearchFacturacion)

            .addComponent(jButton1)

            .addComponent(jButton2))

        .addContainerGap(68, Short.MAX_VALUE))

    );


    jTabbedPane1.addTab("Billing", jPanel4);


    javax.swing.GroupLayout jPGraphicFactLayout = new
javax.swing.GroupLayout(jPGraphicFact);

    jPGraphicFact.setLayout(jPGraphicFactLayout);

    jPGraphicFactLayout.setHorizontalGroup(

jPGraphicFactLayout.createParallelGroup(javax.swing.GroupLayout.Alignm
ent.LEADING)

        .addGap(0, 620, Short.MAX_VALUE)

    );

    jPGraphicFactLayout.setVerticalGroup(

jPGraphicFactLayout.createParallelGroup(javax.swing.GroupLayout.Alignm
ent.LEADING)

        .addGap(0, 286, Short.MAX_VALUE)

    );
```

```
jTabbedPane1.addTab("Billing graph", jPGraphicFact);


javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(


layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(layout.createSequentialGroup()

      .addGap(20, 20, 20)

      .addComponent(jTabbedPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 620,
javax.swing.GroupLayout.PREFERRED_SIZE)

      .addContainerGap(19, Short.MAX_VALUE))

    );

    layout.setVerticalGroup(


layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

    .addGroup(layout.createSequentialGroup()

      .addGap(41, 41, 41)

      .addComponent(jTabbedPane1,
javax.swing.GroupLayout.PREFERRED_SIZE, 319,
```

```java
            javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addContainerGap(16, Short.MAX_VALUE))
        );


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


    private void jBEditElimateActionPerformed(java.awt.event.ActionEvent evt) {
        // TODO add your handling code here:
        int code = Integer.parseInt(txtIdProd.getText());
        CtlProduct ctlproduct = new CtlProduct();
        boolean product = ctlproduct.DelateProduct(code);
        if (product == true){
            JOptionPane.showMessageDialog(this, "Fue eliminado correctamente");
        }else{
            JOptionPane.showMessageDialog(this, "No fue eliminado");


        }


    }
```

```java
    private void jBEditProductActionPerformed(java.awt.event.ActionEvent
evt) {

        // TODO add your handling code here:

        try {

            String Ccode = txtIdProd.getText();

            String name = txtNameProd.getText();

            String Sstock = txtStockProd.getText();

            String Svalue = txtValueProd.getText();

            int code = Integer.parseInt(Ccode);

            int stock = Integer.parseInt(Sstock);

            int value = Integer.parseInt(Svalue);

            ClassProduct product = new ClassProduct(name, value, stock);

            product.setCode(code);

            CtlProduct ctlProduct = new CtlProduct();

            boolean editar = ctlProduct.EditProduct(product);

            if (editar == true){

                JOptionPane.showMessageDialog(this, "Fue Editado
correctamente");

            }else{

                JOptionPane.showMessageDialog(this, "No fue Editado");
```

```java
        }


    } catch(Exception e){

        JOptionPane.showMessageDialog(this, "No se pudo actualizar");



    }

  }


    private void
jBSearchProductActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

        int code = Integer.parseInt(txtIdProd.getText());

        CtlProduct ctlproduct = new CtlProduct();

        ClassProduct product = (ClassProduct) ctlproduct.SearchProduct(code);

        if (product == null){

            JOptionPane.showMessageDialog(this, "Code not Found");

        }else{

            txtNameProd.setText(product.getName());

            txtStockProd.setText(Integer.toString(product.getStock()));

            txtValueProd.setText(Integer.toString(product.getPrice()));
```

```java
        }
    }


    private void
jBCreateProductActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

        try {

            String name = txtNameProd.getText();

            String Sstock = txtStockProd.getText();

            String Svalue = txtValueProd.getText();


            if (Sstock.equals(" ") || name.equals(" ") || Svalue.equals(" ")){

                JOptionPane.showMessageDialog(this, "Fill all fields");

            }else {

                int stock = Integer.parseInt(Sstock);

                int value = Integer.parseInt(Svalue);

                ClassProduct product = new ClassProduct(name, value, stock);

                CtlProduct ctlProduct = new CtlProduct();

                ctlProduct.CreateProduct(product);

                txtIdProd.setText(Integer.toString(product.getCode()));

                //          EmployeeObjectList.add(employee);
```

```java
//          this.FillJlist();

        JOptionPane.showMessageDialog(this ,"The record has been saved");


    }

  } catch(Exception e){

      JOptionPane.showMessageDialog(this, "Please and a valid born year");

      System.out.println(e);


  }
}


private void jBDeleteActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    int code = Integer.parseInt(IdCode.getText());

    CtlCompu ctlcompu = new CtlCompu();

    boolean compu = ctlcompu.DelatePerson(code);

    if (compu == true){

        JOptionPane.showMessageDialog(this, "Fue eliminado correctamente");

    }else{
```

```java
            JOptionPane.showMessageDialog(this, "No fue eliminado");



        }



    }



    private void jBUpdateEmpActionPerformed(java.awt.event.ActionEvent
evt) {

        // TODO add your handling code here:

        try {

            String name = txtEmpName.getText();

            String email = txtEmpEmail.getText();

            String password = txtEmpPassword.getText();

            boolean admin = cbAdmin.isSelected();

            String Ccode = IdCode.getText();

            int code = Integer.parseInt(Ccode);



            ClassEmployee employee = new ClassEmployee(password, admin,
name, email);

            employee.setCode(code);

            CtlCompu ctlCompu = new CtlCompu();

            boolean editar = ctlCompu.EditPerson(employee);
```

```java
        if (editar == true){

            JOptionPane.showMessageDialog(this, "Fue Editado
correctamente");

        }else{

            JOptionPane.showMessageDialog(this, "No fue Editado");


        }


    } catch(Exception e){

        JOptionPane.showMessageDialog(this, "No se pudo actualizar");


    }

  }


    private void jBSearchEmpActionPerformed(java.awt.event.ActionEvent
evt) {

        // TODO add your handling code here:

        int code = Integer.parseInt(IdCode.getText());

        CtlCompu ctlCompu = new CtlCompu();

        ClassEmployee emp = (ClassEmployee)
ctlCompu.SearchEmployee(code);

        if (emp == null){
```

```java
            JOptionPane.showMessageDialog(this, "Code not Found");

        }else{

            txtEmpName.setText(emp.getName());

            txtEmpEmail.setText(emp.getEmail());

            txtEmpPassword.setText(emp.getPassword());

            cbAdmin.setSelected(emp.getAdmin());



        }

    }


    private void jBCreateEmpActionPerformed(java.awt.event.ActionEvent
evt) {

        // TODO add your handling code here:

        try {

            String name = txtEmpName.getText();

            String email = txtEmpEmail.getText();

            String password = txtEmpPassword.getText();

            boolean admin = cbAdmin.isSelected();


            if (email.equals(" ") || name.equals(" ") || password.equals(" ")){

                JOptionPane.showMessageDialog(this, "Fill all fields");
```

```java
        }else {

            ClassEmployee employee = new ClassEmployee(password, admin,
name, email);


            CtlCompu ctlCompu = new CtlCompu();

            ctlCompu.CreatePerson(employee);

            IdCode.setText(Integer.toString(employee.getCode()));
//          EmployeeObjectList.add(employee);
//          this.FillJlist();

            JOptionPane.showMessageDialog(this ,"The record has been
saved");


        }

    } catch(Exception e){

        JOptionPane.showMessageDialog(this, "Please and a valid born
year");

        System.out.println(e);


    }

  }


  private void cbAdminActionPerformed(java.awt.event.ActionEvent evt) {
```

```java
        // TODO add your handling code here:

    }


    private void
txtEmpPasswordActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

    }


    private void txtEmpEmailActionPerformed(java.awt.event.ActionEvent
evt) {

        // TODO add your handling code here:

    }


    private void txtEmpNameActionPerformed(java.awt.event.ActionEvent
evt) {

        // TODO add your handling code here:

    }


    private void
jBSearchFacturacionActionPerformed(java.awt.event.ActionEvent evt) {

        // TODO add your handling code here:

        int code = Integer.parseInt(txtIdProd1.getText());
```

```java
CtlProduct ctlproduct = new CtlProduct();

ClassProduct product = (ClassProduct) ctlproduct.SearchProduct(code);

if (product == null){

    JOptionPane.showMessageDialog(this, "Code not Found");

}else{

    txtNameProd1.setText(product.getName());
//      txtAmount.setText(Integer.toString(product.getStock()));

    txtValueProd1.setText(Integer.toString(product.getPrice()));

    String valor = txtValueProd1.getText();

    String cantidad = txtAmount.getText();

    int nvalor = Integer.parseInt(valor);

    int ncantidad = Integer.parseInt(cantidad);

    Operaciones operacion = new Operaciones();

    long subtotal = operacion.Multiplicar(nvalor, ncantidad);

    txtSubTotal.setText(String.valueOf(subtotal));


    }


    }


    private void txtSubTotalActionPerformed(java.awt.event.ActionEvent
```

```java
evt) {

    // TODO add your handling code here:

    String valor = txtValueProd1.getText();

    String cantidad = txtAmount.getText();

    int nvalor = Integer.parseInt(valor);

    int ncantidad = Integer.parseInt(cantidad);

    int subtotal = nvalor*ncantidad;

    txtSubTotal.setText(String.valueOf(subtotal));


}


private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    try {

        String name = txtNameProd1.getText();

        String Sstock = txtAmount.getText();

        String Svalue = txtValueProd1.getText();

        String Ssubtotal = txtSubTotal.getText();

        String sidproduct = txtIdProd1.getText();


        if (Sstock.equals(" ") || name.equals(" ") || Svalue.equals(" ")){
```

```java
        JOptionPane.showMessageDialog(this, "Fill all fields");

    }else {

        int stock = Integer.parseInt(Sstock);

        int value = Integer.parseInt(Svalue);

        int subtotal = Integer.parseInt(Ssubtotal);

        int idproduct = Integer.parseInt(sidproduct);

        ClassFacturacion facturacion = new ClassFacturacion(stock,
subtotal, name, value, stock);

        facturacion.setCode(idproduct);

        CtlFacturacion ctlfacturacion = new CtlFacturacion();

        ctlfacturacion.CreateFacturacion(facturacion);


        //          txtIdProd.setText(Integer.toString(product.getCode()));

        //          EmployeeObjectList.add(employee);

        //          this.FillJlist();

        JOptionPane.showMessageDialog(this ,"The record has been
saved");


    }

} catch(Exception e){

    JOptionPane.showMessageDialog(this, "Please and a valid born
year");
```

```java
//      System.out.println(e);


    }

  }


  private void txtNameProd1ActionPerformed(java.awt.event.ActionEvent
evt) {

    // TODO add your handling code here:

  }


  private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    CtlFacturacion ctlfacturacion = new CtlFacturacion();

    int total =ctlfacturacion.CalcularTotal();

    txtTotal.setText(String.valueOf(total));

  }


  private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

    CtlFacturacion CtlFacturacion = new CtlFacturacion();

    LinkedList<ClassFacturacion> report =
CtlFacturacion.ListaComFacturacion();
```

```java
HSSFWorkbook book = new HSSFWorkbook();

HSSFSheet sheet = book.createSheet();

book.setSheetName(0, "Facturacion");

String[] headers = new String[]{

    "Code",

    "Name",

    "Stock",

    "Value",

    "SubTotal"

};


CellStyle headerCellStyle = book.createCellStyle();

HSSFFont font = book.createFont();

font.setBold(true);

headerCellStyle.setFont(font);


HSSFRow headersRow = sheet.createRow(0);

for (int i = 0; i < headers.length; i++) {

    String header = headers[i];

    HSSFCell cell = headersRow.createCell(i);

    cell.setCellStyle(headerCellStyle);
```

```java
        cell.setCellValue(header);

    }

    int largo = report.size();

    for (int i = 0; i < largo; i++) {

        HSSFRow row = sheet.createRow(i+1);

        int code = report.get(i).getCode();

        String name = report.get(i).getName();

        int stock = report.get(i).getStock();

        int value = report.get(i).getPrice();

        int subtotal = report.get(i).getSubtotal();

        row.createCell(0).setCellValue(code);

        row.createCell(1).setCellValue(name);

        row.createCell(2).setCellValue(stock);

        row.createCell(3).setCellValue(value);

        row.createCell(4).setCellValue(subtotal);

    }

    try {

        DateTimeFormatter dtf =
DateTimeFormatter.ofPattern("yyyy_MM_dd HH-mm-ss");


        FileOutputStream file = new
FileOutputStream("Facturacion_"+dtf.format(LocalDateTime.now()).toStrin
```

```
g()+".xls");

//        FileOutputStream file = new FileOutputStream("Facturacion.xls");

        book.write(file);

        file.close();

        JOptionPane.showMessageDialog(this, "Se ah Exportado
correctamente");

    } catch (FileNotFoundException ex) {

        Logger.getLogger(FrmComPHMR.class.getName()).log(Level.SEVERE,
null, ex);

    } catch (IOException ex) {

        Logger.getLogger(FrmComPHMR.class.getName()).log(Level.SEVERE,
null, ex);

    }

}


/**

 * @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(FrmComPHMR.class.getName()).log(java.
util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(FrmComPHMR.class.getName()).log(java.
util.logging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(FrmComPHMR.class.getName()).log(java.
util.logging.Level.SEVERE, null, ex);

```java
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(FrmComPHMR.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 FrmComPHMR().setVisible(true);
            }
        });
    }
        private void FillJlist(){
         DefaultListModel model = new DefaultListModel ();
         int index = 0;
        CtlFacturacion CtlFacturacion = new CtlFacturacion();
        LinkedList<ClassListFacturacion> report =
CtlFacturacion.ListaFacturacion();
         for (ClassListFacturacion record : report) {
            String data = record.getName() + " - " + record.getStock() + " - se
```

Vendieron";

```
        model.add(index, data);

        index++;

    }

    jListFact.setModel(model);

}
```

```java
// Variables declaration - do not modify

private javax.swing.JTextPane IdCode;

private javax.swing.JLabel Id_person;

private javax.swing.JCheckBox cbAdmin;

private javax.swing.JButton jBCreateEmp;

private javax.swing.JButton jBCreateProduct;

private javax.swing.JButton jBDelete;

private javax.swing.JButton jBEditElimate;

private javax.swing.JButton jBEditProduct;

private javax.swing.JButton jBSearchEmp;

private javax.swing.JButton jBSearchFacturacion;

private javax.swing.JButton jBSearchProduct;
```

```java
private javax.swing.JButton jBUpdateEmp;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel10;

private javax.swing.JLabel jLabel11;

private javax.swing.JLabel jLabel12;

private javax.swing.JLabel jLabel13;

private javax.swing.JLabel jLabel14;

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.JLabel jLabel7;

private javax.swing.JLabel jLabel8;

private javax.swing.JLabel jLabel9;

private javax.swing.JList<String> jListFact;

private javax.swing.JPanel jPGraphicFact;

private javax.swing.JPanel jPanel1;
```

```java
private javax.swing.JPanel jPanel2;

private javax.swing.JPanel jPanel3;

private javax.swing.JPanel jPanel4;

private javax.swing.JProgressBar jProgressBar1;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane3;

private javax.swing.JSpinner jSpinner1;

private javax.swing.JTabbedPane jTabbedPane1;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

private javax.swing.JTextField txtAmount;

private javax.swing.JTextField txtEmpEmail;

private javax.swing.JTextField txtEmpName;

private javax.swing.JTextField txtEmpPassword;

private javax.swing.JTextField txtIdProd;

private javax.swing.JTextField txtIdProd1;

private javax.swing.JTextField txtNameProd;

private javax.swing.JTextField txtNameProd1;

private javax.swing.JTextField txtStockProd;

private javax.swing.JTextField txtSubTotal;

private javax.swing.JTextField txtTotal;
```

```java
    private javax.swing.JTextField txtValueProd;

    private javax.swing.JTextField txtValueProd1;

    // End of variables declaration


    private void JOptionPane(String se_ah_exportado_correctamente) {

        throw new UnsupportedOperationException("Not supported yet.");
//To change body of generated methods, choose Tools | Templates.

    }

}


package Model;


import Class.*;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;

import java.util.LinkedList;
```

```java
/**
 *
 * @author fabio
 */
public class modelFacturacion {

  DbData dbData;

  public modelFacturacion() {

    this.dbData = new DbData();

  }



  public boolean CreateFacturacion(ClassFacturacion facturacion){

    try(Connection conn=
DriverManager.getConnection(dbData.getUrl(),dbData.getUser(),dbData.ge
tPassword())){

      String query = "INSERT INTO `tb_facturacion`(`id_product`, `name`,
`stock`, `value`, `sub_total`) VALUES (?,?,?,?,?)";

      PreparedStatement statementProduct =
conn.prepareStatement(query, Statement.RETURN_GENERATED_KEYS);

      statementProduct.setInt(1, facturacion.getCode());

      statementProduct.setInt(3, facturacion.getStock());
```

```java
        statementProduct.setString(2, facturacion.getName());

        statementProduct.setInt(4, facturacion.getPrice());

        statementProduct.setInt(5, facturacion.getSubtotal());

        int rowsInserted = statementProduct.executeUpdate();


    return false;

    }catch (SQLException e) {

     return false;

}

  }



  public boolean EditProduct(ClassProduct product){

     try(Connection conn=
DriverManager.getConnection(dbData.getUrl(),dbData.getUser(),dbData.ge
tPassword())){

     String query = "UPDATE `tb_product` SET `name`=?,`value`=?,`stock`=?
WHERE code = ?";

     PreparedStatement statementProduct =
conn.prepareStatement(query);

     statementProduct.setInt(4, product.getCode());

     statementProduct.setString(1, product.getName());
```

```java
        statementProduct.setInt(3, product.getStock());

        statementProduct.setInt(2, product.getPrice());

        int rowsInserted = statementProduct.executeUpdate();


    return true;

    }catch (Exception e) {

     return false;

}

  }


  public boolean DelateProduct(int code){

     try(Connection conn=
DriverManager.getConnection(dbData.getUrl(),dbData.getUser(),dbData.ge
tPassword())){

        String query = "DELETE FROM `tb_product` WHERE code=?;";

        PreparedStatement statementProduct =
conn.prepareStatement(query);

        statementProduct.setInt(1, code);

        int rowsDelete = statementProduct.executeUpdate();


     return true;
```

```java
        }catch (Exception e) {

        return false;

}

    }


    public ClassProduct SearchProduct(int code){

        ClassProduct product = null;

        try(Connection conn=
DriverManager.getConnection(dbData.getUrl(),dbData.getUser(),dbData.ge
tPassword())){

            String query = "SELECT * FROM tb_product AS p WHERE p.code=?;";

            PreparedStatement statementProduct =
conn.prepareStatement(query);

            statementProduct.setInt(1, code);

            ResultSet result = statementProduct.executeQuery();

            while(result.next()){

                int txtIdProd = result.getInt(1);

                String txtNameProd = result.getString(2);

                int txtStockProd = result.getInt(4);

                int txtValueProd = result.getInt(3);

                product = new ClassProduct(txtNameProd, txtValueProd,
```

```java
txtStockProd);


        }

        return product;

    }catch (Exception e){

        return product;}

    }


    public int CalcularTotal(){

     try(Connection conn=
DriverManager.getConnection(dbData.getUrl(),dbData.getUser(),dbData.ge
tPassword())){

        String query = "SELECT `sub_total` FROM `tb_facturacion` ";

        PreparedStatement statementProduct =
conn.prepareStatement(query);

        ResultSet result = statementProduct.executeQuery();

        int subtotal = 0;

        while(result.next()){

            int intSubtotal = result.getInt(1);

            subtotal += intSubtotal ;


        }
```

```java
    return subtotal;

    }catch (Exception e) {

     return 0;

}

  }


  public LinkedList<ClassListFacturacion> ListFacturacion(){

    LinkedList<ClassListFacturacion> report = new LinkedList<>();

    try(Connection conn=
DriverManager.getConnection(dbData.getUrl(),dbData.getUser(),dbData.ge
tPassword())){

      String query = "Select name,  sum(stock) from tb_facturacion group
by name";

      PreparedStatement statementFacturacion =
conn.prepareStatement(query);

      ResultSet result = statementFacturacion.executeQuery();

      while (result.next()){

        ClassListFacturacion record = new ClassListFacturacion();

        String name = result.getString(1);

        int stock = result.getInt(2);

        record.setName(name);
```

```java
            record.setStock(stock);

            report.add(record);

        }


    return report;

    }catch (Exception e) {

     return report;

}

    }

    public LinkedList<ClassFacturacion> ListCompletaFacturacion(){

        LinkedList<ClassFacturacion> report = new LinkedList<>();

        try(Connection conn=
DriverManager.getConnection(dbData.getUrl(),dbData.getUser(),dbData.ge
tPassword())){

            String query = "SELECT * FROM `tb_facturacion` ";

            PreparedStatement statementFacturacion =
conn.prepareStatement(query);

            ResultSet result = statementFacturacion.executeQuery();

            while (result.next()){

                int id = result.getInt(1);

                int id_producto = result.getInt(2);

                String name = result.getString(3);
```

```java
            int stock = result.getInt(4);

            int value = result.getInt(5);

            int subtotal = result.getInt(6);

            ClassFacturacion record = new ClassFacturacion(stock, subtotal,
name, value, stock);

            record.setCode(id);

            report.add(record);

        }


    return report;

    }catch (Exception e) {

     return report;

}



    }



//   public ClassEmployee SearchPet(String code) {

//      throw new UnsupportedOperationException("Not supported yet.");
//To change body of generated methods, choose Tools | Templates.

//   }

//
```

}