

# JAVA AND DBMS PROJECT

ROLL NO :231901005,14,44

## AUDIT DETAILS:

```
package student.information.system;
import javax.swing.JOptionPane;
import java.awt.*;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.util.Calendar;
import java.util.GregorianCalendar;
import javax.swing.*;
import net.proteanit.sql.DbUtils;

public class Audit_details extends javax.swing.JFrame {
    Connection conn=null;
    ResultSet rs=null;
    PreparedStatement pst=null;
    /**
     * Creates new form Audit_details
     */
    public Audit_details() {
        initComponents();
        conn=db.java_db();
        Toolkit toolkit = getToolkit();
        Dimension size = toolkit.getScreenSize();
        setLocation(size.width/2 - getWidth()/2,
            size.height/2 - getHeight()/2);

        Update_table3();
    }

    private void Update_table3() {
        try{

            String sql ="select * from Audit";
```

```

        pst=conn.prepareStatement(sql);
        rs=pst.executeQuery();
        tbl_3.setModel(DbUtils.resultSetToTableModel(rs));

    }
    catch(Exception e){
        JOptionPane.showMessageDialog(null, e);
    }
    finally {

        try{
            rs.close();
            pst.close();

        }
        catch(Exception e){

        }
    }
}

```

```

/**
 * 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"> // GEN-BEGIN: initComponents
private void initComponents() {

    jPanel3 = new javax.swing.JPanel();
    jScrollPane3 = new javax.swing.JScrollPane();
    tbl_3 = new javax.swing.JTable();
    jButton1 = new javax.swing.JButton();
    jPanel4 = new javax.swing.JPanel();
    jLabel2 = new javax.swing.JLabel();
    txt_search = new javax.swing.JTextField();

    setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
    setResizable(false);

    jPanel3.setBorder(javax.swing.BorderFactory.createTitledBorder(null,
"Login_Record", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Adobe

```

```
Arabic", 1, 14))); // NOI18N
```

```
tbl_3.setModel(new javax.swing.table.DefaultTableModel(  
    new Object [][] {  
        {null, null, null, null},  
        {null, null, null, null},  
        {null, null, null, null},  
        {null, null, null, null}  
    },  
    new String [] {  
        "Title 1", "Title 2", "Title 3", "Title 4"  
    }  
));  
jScrollPane3.setViewportViewView(tbl_3);
```

```
jButton1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/student/  
information/system/images/erase-128.png"))); // NOI18N  
jButton1.setText("Reset");  
jButton1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton1ActionPerformed(evt);  
    }  
});
```

```
javax.swing.GroupLayout jPanel3Layout = new  
javax.swing.GroupLayout(jPanel3);  
jPanel3.setLayout(jPanel3Layout);  
jPanel3Layout.setHorizontalGroup(  
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel3Layout.createSequentialGroup()  
            .addGap(10, 10, 10)  
            .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE, 557, Short.MAX_VALUE)  
                .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 100, Short.MAX_VALUE)  
            )  
            .addGap(10, 10, 10)  
        )  
);  
jPanel3Layout.setVerticalGroup(  
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel3Layout.createSequentialGroup()  
            .addGap(10, 10, 10)  
            .addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE, 557, Short.MAX_VALUE)  
            .addGap(10, 10, 10)  
            .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 100, Short.MAX_VALUE)  
            .addGap(10, 10, 10)  
        )  
);
```

```
jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
    .addGroup(jPanel3Layout.createSequentialGroup()  
        .addGap(10, 10, 10)  
        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
            .addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE, 557, Short.MAX_VALUE)  
            .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 100, Short.MAX_VALUE)  
        )  
        .addGap(10, 10, 10)  
    )  
);  
jPanel3Layout.setVerticalGroup(  
    jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(jPanel3Layout.createSequentialGroup()  
            .addGap(10, 10, 10)  
            .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE, 557, Short.MAX_VALUE)  
                .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 100, Short.MAX_VALUE)  
            )  
            .addGap(10, 10, 10)  
        )  
);
```

```
.addComponent(jScrollPane3, javax.swing.GroupLayout.DEFAULT_SIZE,
327, Short.MAX_VALUE)
```

```
.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
.addComponent(jButton1)
.addGap(6, 6, 6))
);
```

```
jPanel4.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Search",
javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Adobe
Arabic", 1, 14))); // NOI18N
```

```
jLabel2.setText("ID:");
```

```
txt_search.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyReleased(java.awt.event.KeyEvent evt) {
        txt_searchKeyReleased(evt);
    }
});
```

```
javax.swing.GroupLayout jPanel4Layout = new
javax.swing.GroupLayout(jPanel4);
jPanel4.setLayout(jPanel4Layout);
jPanel4Layout.setHorizontalGroup(
```

```
jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel4Layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addComponent(jLabel2)
        .addGap(18, 18, 18)
        .addComponent(txt_search)
        .addGap(18, 18, 18)
    );
jPanel4Layout.setVerticalGroup(
```

```
jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel4Layout.createSequentialGroup()
        .addGap(18, 18, 18)
    );
```

```
.addGroup(jPanel4Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
    .addComponent(txt_search, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel2))
.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
```

```

    );

    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(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, Short.MAX_VALUE))
            .addGroup(layout.createSequentialGroup()
                .addGap(0, 0, Short.MAX_VALUE)
                .addComponent(jPanel4, javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addGap(0, 0, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .addGap(20, 20, 20)
                .addComponent(jPanel4, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(26, 26, 26)
                .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
    javax.swing.GroupLayout.DEFAULT_SIZE,
    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(0, 0, Short.MAX_VALUE))
    );

    pack();
} // </editor-fold> // GEN-END: initComponents

```

```

private void txt_searchKeyReleased(java.awt.event.KeyEvent evt) { // GEN-
FIRST:event_txt_searchKeyReleased
    // TODO add your handling code here:
    try{

        String sql ="select * from Audit where emp_id=? ";

        pst=conn.prepareStatement(sql);
        pst.setString(1,txt_search.getText());
        rs=pst.executeQuery();
        tbl_3.setModel(DbUtils.resultSetToTableModel(rs));
    }
}

```

```

    }catch(Exception e){
        JOptionPane.showMessageDialog(null, e);
    }
    finally {

        try{

            rs.close();
            pst.close();

        }
        catch(Exception e){

        }
    }
}

}

//GEN-LAST:event_txt_searchKeyReleased

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton1ActionPerformed
    // TODO add your handling code here:

    Update_table3();
    txt_search.setText("");

}

//GEN-LAST:event_jButton1ActionPerformed

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //
```

```

        javax.swing.UIManager.setLookAndFeel(info.getClassName());
        break;
    }
}
} catch (ClassNotFoundException ex) {

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

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

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

java.util.logging.Logger.getLogger(Audit_details.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
//</editor-fold>
//</editor-fold>
//</editor-fold>
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Audit_details().setVisible(true);
    }
});
}

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel2;
private javax.swing.JPanel jPanel3;
private javax.swing.JPanel jPanel4;
private javax.swing.JScrollPane jScrollPane3;
private javax.swing.JTable tbl_3;
private javax.swing.JTextField txt_search;
// End of variables declaration//GEN-END:variables
}

```

DB JAVA:

```

package student.information.system;
import java.sql.*;

```

```

import javax.swing.*;
public class db {

    Connection conn=null;
    public static Connection java_db(){

        try{
            Class.forName("org.sqlite.JDBC");
            Connection conn
=DriverManager.getConnection("jdbc:sqlite:studentInfo.sqlite");
            //JOptionPane.showMessageDialog(null, "Connection to database is
successful");

            return conn;

        }catch (Exception e){
            JOptionPane.showMessageDialog(null, e);
            return null;
        }

    }
}

```

LOGIN JAVA:

```

package student.information.system;

import java.text.DateFormat;
import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.GregorianCalendar;
import javax.swing.JOptionPane;
import com.sun.glass.events.KeyEvent;
import java.awt.*;
import java.io.File;
import java.io.FileNotFoundException;
import java.io.FileWriter;
import java.io.IOException;
import java.io.Writer;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.text.DateFormat;
import java.text.SimpleDateFormat;
import javax.swing.*;
import java.util.Calendar;
import java.util.Date;
import java.util.GregorianCalendar;
import java.util.LinkedList;

```



```
import java.util.Scanner;
import java.util.logging.Level;
import java.util.logging.Logger;
public class Login extends javax.swing.JFrame {
    public static Writer newWriter,SortWriter;
```

```
        Connection conn=null;
        ResultSet rs=null;
        PreparedStatement pst=null;
```

```
    public Login() {
        initComponents();
        conn=db.java_db();
        Toolkit toolkit = getToolkit();
        Dimension size = toolkit.getScreenSize();
        setLocation(size.width/2 - getWidth()/2,
            size.height/2 - getHeight()/2);
        currentDate();
    }
    public void currentDate (){

        Calendar cal =new GregorianCalendar();
        int month = cal.get(Calendar.MONTH);
        int year = cal.get(Calendar.YEAR);
        int day = cal.get(Calendar.DAY_OF_MONTH);

        txt_date.setText((month+1)+"/"+day+"/"+year);
    }
```

```
// <editor-fold defaultstate="collapsed" desc="Generated Code">///GEN-BEGIN: initComponents
    private void initComponents() {
```

```
        jPanel1 = new javax.swing.JPanel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        txt_username = new javax.swing.JTextField();
        txt_password = new javax.swing.JPasswordField();
        txt_combo = new javax.swing.JComboBox<>();
        jLabel4 = new javax.swing.JLabel();
        jLabel1 = new javax.swing.JLabel();
        jMenuBar1 = new javax.swing.JMenuBar();
        txt_date = new javax.swing.JMenu();
        txt_time = new javax.swing.JMenu();
```

```
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        setResizable(false);
```

```

jPanel1.setLayout(null);

jLabel2.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jLabel2.setForeground(new java.awt.Color(255, 255, 255));
jLabel2.setText("Username :");
jPanel1.add(jLabel2);
jLabel2.setBounds(20, 280, 90, 17);

jLabel3.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jLabel3.setForeground(new java.awt.Color(255, 255, 255));
jLabel3.setText("Password :");
jPanel1.add(jLabel3);
jLabel3.setBounds(20, 320, 80, 17);

jButton1.setText("Login");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
jPanel1.add(jButton1);
jButton1.setBounds(180, 390, 70, 30);

txt_username.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txt_usernameActionPerformed(evt);
    }
});
jPanel1.add(txt_username);
txt_username.setBounds(110, 270, 160, 30);
jPanel1.add(txt_password);
txt_password.setBounds(110, 310, 160, 30);

txt_combo.setModel(new javax.swing.DefaultComboBoxModel<>(new String[]
{ "Admin", "Student" }));
txt_combo.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txt_comboActionPerformed(evt);
    }
});
jPanel1.add(txt_combo);
txt_combo.setBounds(110, 350, 160, 30);

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 14)); // NOI18N
jLabel4.setForeground(new java.awt.Color(255, 255, 255));
jLabel4.setText("Division :");
jPanel1.add(jLabel4);

```

```

jLabel4.setBounds(20, 360, 70, 17);

jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/student/
information/system/images/Presentation1.jpg"))); // NOI18N
jPanel1.add(jLabel1);
jLabel1.setBounds(0, 0, 660, 430);

txt_date.setText("Date");
jMenuBar1.add(txt_date);

txt_time.setText("Time");
jMenuBar1.add(txt_time);

setJMenuBar(jMenuBar1);

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 661,
Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 433,
Short.MAX_VALUE)
);

pack();
} // </editor-fold> // GEN-END: initComponents

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_jButton1ActionPerformed

    String access;
    access = this.txt_combo.getSelectedItem().toString();

    String p=String.valueOf(this.txt_password.getPassword());
    if(access.equals("Admin") && this.txt_username.getText().equals("admin") &&
p.equals("admin")) {

        JOptionPane.showMessageDialog(null,"Sucess" );
        MainMenu j = new MainMenu();
        j.setVisible(true);
        this.dispose();
    }
}

```

```

        Date currentDate = GregorianCalendar.getInstance().getTime();
        DateFormat df = DateFormat.getDateInstance();
        String dateString = df.format(currentDate);

        Date d = new Date();
        SimpleDateFormat sdf = new SimpleDateFormat("HH:mm:ss");
        String timeString = sdf.format(d);

        String value0 = timeString;
        String values = dateString;

        this.dispose();

    }
    else if(access.equals("Student")){
        this.jLabel2.setText("Firstname");
        this.jLabel3.setText("12h Roll No");
        File f=new File("output.txt");

Scanner sc = null;
        try {
            sc = new Scanner(f);
        } catch (FileNotFoundException ex) {
            Logger.getLogger(StudentInformation.class.getName()).log(Level.SEVERE,
null, ex);
        }
        while(sc.hasNextLine()){
            String data = sc.nextLine();
            System.out.println(data);
            String variable[] = data.split("\\s+");
            String user=variable[0];
            String perc=variable[3];
            if(perc.equals(String.valueOf(this.txt_password.getPassword())) &&
user.equals(String.valueOf(this.txt_username.getText()))){
                new StudentInformation(perc).setVisible(true);
                this.setVisible(false);

            }
        }
    }

```

```

    } //GEN-LAST:event_jButton1ActionPerformed
    }
    private void txt_usernameActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_txt_usernameActionPerformed
        // TODO add your handling code here:
    } //GEN-LAST:event_txt_usernameActionPerformed

    private void txt_comboActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_txt_comboActionPerformed
        // TODO add your handling code here:
        String id1=this.txt_combo.getSelectedItem().toString();
        if(id1.equals("Student")){
            this.jLabel2.setText("Firstname");
            this.jLabel3.setText("12h Roll No");
        }
    } //GEN-LAST:event_txt_comboActionPerformed

    /**
     * @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(Login.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

```

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

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

```
// Variables declaration - do not modify//GEN-BEGIN:variables  
private javax.swing.JButton jButton1;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel4;  
private javax.swing.JMenuBar jMenuBar1;  
private javax.swing.JPanel jPanel1;  
private javax.swing.JComboBox<String> txt_combo;  
private javax.swing.JMenu txt_date;  
private javax.swing.JPasswordField txt_password;  
private javax.swing.JMenu txt_time;  
private javax.swing.JTextField txt_username;  
// End of variables declaration//GEN-END:variables  
}
```

MAIN MENU:

```
package student.information.system;
```

```
import java.awt.Dimension;  
import java.awt.Toolkit;  
import java.sql.Connection;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.text.DateFormat;  
import java.text.SimpleDateFormat;  
import java.util.Date;  
import java.util.GregorianCalendar;  
import javax.swing.JOptionPane;
```

```
public class MainMenu extends javax.swing.JFrame {  
    Connection conn=null;
```

```

ResultSet rs=null;
PreparedStatement pst=null;
public MainMenu() {
    conn=db.java_db();
    initComponents();
    Toolkit toolkit = getToolkit();
    Dimension size = toolkit.getScreenSize();
    setLocation(size.width/2 - getWidth()/2,
        size.height/2 - getHeight()/2);
}

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

    jPanel1 = new javax.swing.JPanel();
    jButton1 = new javax.swing.JButton();
    jButton5 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    jMenuBar1 = new javax.swing.JMenuBar();
    jMenu1 = new javax.swing.JMenu();
    jMenuItem1 = new javax.swing.JMenuItem();
    jMenuItem2 = new javax.swing.JMenuItem();

    setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
    setResizable(false);

    jPanel1.setLayout(null);

    jButton1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/student/
information/system/images/Add.png"))); // NOI18N
    jButton1.setText("Student Manager");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(evt);
        }
    });
    jPanel1.add(jButton1);
    jButton1.setBounds(570, 430, 190, 60);

    jButton5.setIcon(new javax.swing.ImageIcon(getClass().getResource("/student/
information/system/images/logout.png"))); // NOI18N
    jButton5.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton5ActionPerformed(evt);
        }
    });
}

```

```

jPanel1.add(jButton5);
jButton5.setBounds(750, 10, 40, 30);

jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/student/
information/system/images/pnbennet.png"))); // NOI18N
jPanel1.add(jLabel1);
jLabel1.setBounds(0, 0, 800, 530);

jMenu1.setText("File");

jMenuItem1.setText("Audit");
jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jMenuItem1ActionPerformed(evt);
    }
});
jMenu1.add(jMenuItem1);

jMenuItem2.setText("Users");
jMenuItem2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jMenuItem2ActionPerformed(evt);
    }
});
jMenu1.add(jMenuItem2);

jMenuBar1.add(jMenu1);

setJMenuBar(jMenuBar1);

javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 799,
Short.MAX_VALUE)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT_SIZE, 529,
Short.MAX_VALUE)
);

pack();
} // </editor-fold> // GEN-END: initComponents

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-

```



```
FIRST:event_jButton5ActionPerformed
```

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

```
    Login j = new Login();
```

```
    j.setVisible(true);
```

```
    this.dispose();
```

```
    try{
```

```
        Date currentDate = GregorianCalendar.getInstance().getTime();
```

```
        DateFormat df = DateFormat.getDateInstance();
```

```
        String dateString = df.format(currentDate);
```

```
        Date d = new Date();
```

```
        SimpleDateFormat sdf = new SimpleDateFormat("HH:mm:ss");
```

```
        String timeString = sdf.format(d);
```

```
        String value0 = timeString;
```

```
        String values = dateString;
```

```
        int value = Emp.empId;
```

```
        String reg = "insert into Audit (emp_id,date,status) values  
        (" + value + "," + value0 + " / " + values + "','Logged out')";
```

```
        pst=conn.prepareStatement(reg);
```

```
        pst.execute();
```

```
        this.dispose();
```

```
    }catch (Exception e){
```

```
        JOptionPane.showMessageDialog(null, e);
```

```
    }
```

```
    finally {
```

```
        try{
```

```
            rs.close();
```

```
            pst.close();
```

```
        }
```

```
        catch(Exception e){
```

```
        }
```

```
    }
```

```
}//GEN-LAST:event_jButton5ActionPerformed
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-  
FIRST:event_jButton1ActionPerformed
```

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

```

        StudentInformation j= new StudentInformation();
        j.setVisible(true);

    }//GEN-LAST:event_jButton1ActionPerformed

    private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jMenuItem1ActionPerformed
        // TODO add your handling code here:
        Audit_details j = new Audit_details();
        j.setVisible(true);
    }//GEN-LAST:event_jMenuItem1ActionPerformed

    private void jMenuItem2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jMenuItem2ActionPerformed
        // TODO add your handling code here:

        users j = new users();
        j.setVisible(true);
    }//GEN-LAST:event_jMenuItem2ActionPerformed

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

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

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

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

```

```
java.awt.EventQueue.invokeLater(new Runnable() {  
    public void run() {  
        new MainMenu().setVisible(true);  
    }  
});  
}
```

```
// Variables declaration - do not modify//GEN-BEGIN:variables  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton5;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JMenu jMenu1;  
private javax.swing.JMenuBar jMenuBar1;  
private javax.swing.JMenuItem jMenuItem1;  
private javax.swing.JMenuItem jMenuItem2;  
private javax.swing.JPanel jPanel1;  
// End of variables declaration//GEN-END:variables  
}
```

STUDENT INFO:

```
package student.information.system;  
  
import net.proteanit.sql.DbUtils;  
import java.awt.*;  
import java.awt.image.BufferedImage;  
import java.io.BufferedReader;  
import java.io.ByteArrayOutputStream;  
import java.io.File;  
import java.io.FileInputStream;  
import java.io.FileNotFoundException;  
import java.io.FileWriter;  
import java.io.IOException;  
import java.sql.Connection;  
import java.sql.PreparedStatement;  
import java.sql.ResultSet;  
import java.text.DateFormat;  
import java.text.SimpleDateFormat;  
import java.util.Calendar;  
import java.util.Date;  
import java.util.GregorianCalendar;  
import java.util.LinkedList;  
import java.util.Scanner;  
import java.util.logging.Level;  
import java.util.logging.Logger;  
import javax.imageio.ImageIO;  
import javax.swing.*;
```

```
public class StudentInformation extends javax.swing.JFrame {
    Connection conn=null;
    ResultSet rs=null;
    PreparedStatement pst=null;
```

```
    public StudentInformation() {
        initComponents();
        conn=db.java_db();
        Toolkit toolkit = getToolkit();
        Dimension size = toolkit.getScreenSize();
        setLocation(size.width/2 - getWidth()/2,
            size.height/2 - getHeight()/2);
        currentDate();
        txt_emp.setText(String.valueOf(Emp.empId).toString());
    }
```

```
    public StudentInformation(String StudsId) {
        initComponents();
        Toolkit toolkit = getToolkit();
        Dimension size = toolkit.getScreenSize();
        setLocation(size.width/2 - getWidth()/2,
            size.height/2 - getHeight()/2);
        currentDate();
        txt_search1.setText(StudsId);
        cmd_save.setVisible(false);
        jButton3.setVisible(false);
        cmd_save.setEnabled(false);
        jButton3.setEnabled(false);
    }
```

```
    public void currentDate (){
```

```
        Calendar cal =new GregorianCalendar();
        int month = cal.get(Calendar.MONTH);
        int year = cal.get(Calendar.YEAR);
        int day = cal.get(Calendar.DAY_OF_MONTH);
```

```
        lbl_date.setText((month+1)+"/"+day+"/"+year);
```

```
        //Time
```

```
        int second = cal.get(Calendar.SECOND);
        int minute = cal.get(Calendar.MINUTE);
        int hour = cal.get(Calendar.HOUR);
```

```
        lbl_time.setText(hour+": "+(minute)+": "+second);
```

}

```
/**
 * 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"> // GEN-BEGIN: initComponents
private void initComponents() {

    jMenuBar2 = new javax.swing.JMenuBar();
    jMenu1 = new javax.swing.JMenu();
    jMenu2 = new javax.swing.JMenu();
    jDialog1 = new javax.swing.JDialog();
    jPanel3 = new javax.swing.JPanel();
    jLabel7 = new javax.swing.JLabel();
    txt_tel = new javax.swing.JTextField();
    txt_email = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    jLabel11 = new javax.swing.JLabel();
    r_male = new javax.swing.JRadioButton();
    r_female = new javax.swing.JRadioButton();
    txt_dob = new javax.swing.JTextField();
    jLabel3 = new javax.swing.JLabel();
    txt_surname = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel1 = new javax.swing.JLabel();
    txt_firstname = new javax.swing.JTextField();
    jDesktopPane1 = new javax.swing.JDesktopPane();
    lbl_img = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    jLabel14 = new javax.swing.JLabel();
    jLabel15 = new javax.swing.JLabel();
    jLabel16 = new javax.swing.JLabel();
    txt_pc = new javax.swing.JTextField();
    txt_apr = new javax.swing.JTextField();
    txt_add2 = new javax.swing.JTextField();
    txt_address = new javax.swing.JTextField();
    cmd_save = new javax.swing.JButton();
    jButton1 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    jLabel5 = new javax.swing.JLabel();
    txt_studentid = new javax.swing.JTextField();
    button2 = new java.awt.Button();
}
```

```

txt_emp = new javax.swing.JLabel();
jLabel10 = new javax.swing.JLabel();
jPanel5 = new javax.swing.JPanel();
jLabel13 = new javax.swing.JLabel();
txt_search1 = new javax.swing.JTextField();
jMenuBar1 = new javax.swing.JMenuBar();
File = new javax.swing.JMenu();
jMenuItem1 = new javax.swing.JMenuItem();
lbl_date = new javax.swing.JMenu();
lbl_time = new javax.swing.JMenu();

jMenu1.setText("File");
jMenuBar2.add(jMenu1);

jMenu2.setText("Edit");
jMenuBar2.add(jMenu2);

javax.swing.GroupLayout jDialog1Layout = new
javax.swing.GroupLayout(jDialog1.getContentPane());
jDialog1.getContentPane().setLayout(jDialog1Layout);
jDialog1Layout.setHorizontalGroup(

jDialog1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGap(0, 400, Short.MAX_VALUE)
);
jDialog1Layout.setVerticalGroup(

jDialog1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGap(0, 300, Short.MAX_VALUE)
);

setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
setResizable(false);

jPanel3.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Student
Information", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Adobe
Arabic", 1, 36))); // NOI18N

jLabel7.setText("Contact Number :");

jLabel6.setText("Email :");

jLabel11.setText("Gender:");

r_male.setText("Male");
r_male.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```

        r_maleActionPerformed(evt);
    }
});

r_female.setText("Female");
r_female.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        r_femaleActionPerformed(evt);
    }
});

jLabel3.setText("Date of Birth :");

jLabel2.setText("Surname :");

jLabel1.setText("First name :");

txt_firstname.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txt_firstnameActionPerformed(evt);
    }
});

jDesktopPane1.setLayer(lbl_img, javax.swing.JLayeredPane.DEFAULT_LAYER);

javax.swing.GroupLayout jDesktopPane1Layout = new
javax.swing.GroupLayout(jDesktopPane1);
jDesktopPane1.setLayout(jDesktopPane1Layout);
jDesktopPane1Layout.setHorizontalGroup(

jDesktopPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jDesktopPane1Layout.createSequentialGroup()
        .add(jDesktopPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .add(lbl_img, javax.swing.GroupLayout.DEFAULT_SIZE, 231,
Short.MAX_VALUE)
        )
    )
);
jDesktopPane1Layout.setVerticalGroup(

jDesktopPane1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jDesktopPane1Layout.createSequentialGroup()
        .add(lbl_img, javax.swing.GroupLayout.DEFAULT_SIZE, 145,
Short.MAX_VALUE)
    )
);

```

```

jLabel8.setText("Address Line 1 :");

jLabel14.setText("Address Line 2 :");

jLabel15.setText("12th Percentage");

jLabel16.setText("Post Code :");

txt_apl.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txt_aplActionPerformed(evt);
    }
});

txt_address.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txt_addressActionPerformed(evt);
    }
});

cmd_save.setIcon(new javax.swing.ImageIcon(getClass().getResource("/
student/information/system/images/Save-icon.png"))); // NOI18N
cmd_save.setText("Add Record");
cmd_save.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        cmd_saveActionPerformed(evt);
    }
});

jButton1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/student/
information/system/images/erase-128.png"))); // NOI18N
jButton1.setText("Clear");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jButton3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/student/
information/system/images/delete_16x16.gif"))); // NOI18N
jButton3.setText("Delete");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});

```



```

jLabel5.setText("Student ID :");

button2.setLabel("Select Your Choices");
button2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        button2ActionPerformed(evt);
    }
});

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

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel3Layout.createSequentialGroup()
        .addGap(10, 10, 10)
        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel6)
            .addComponent(jLabel7)
            .addComponent(jLabel11))
        .addGap(41, 41, 41)

        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(10, 10, 10)
                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(r_male)
                    .addComponent(r_female))

                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .addGroup(jPanel3Layout.createSequentialGroup()
                        .addGap(10, 10, 10)
                        .addComponent(txt_tel,
javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(txt_email,
javax.swing.GroupLayout.PREFERRED_SIZE, 168,
javax.swing.GroupLayout.PREFERRED_SIZE)))
                    .addGroup(jPanel3Layout.createSequentialGroup()
                        .addGap(10, 10, 10)
                        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(jLabel1)
                            .addComponent(jLabel2)

```

```

        .addComponent(jLabel3)
        .addComponent(jLabel5))
        .addGap(58, 58, 58)

    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
TRAILING, false)
        .addComponent(txt_surname,
javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(txt_firstname)
        .addComponent(txt_dob)
        .addComponent(txt_studentid,
javax.swing.GroupLayout.DEFAULT_SIZE, 168, Short.MAX_VALUE)))

    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
TRAILING)
        .addGroup(jPanel3Layout.createSequentialGroup()
            .addGap(141, 141, 141)
            .addComponent(button2,
javax.swing.GroupLayout.PREFERRED_SIZE, 168,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(javax.swing.GroupLayout.Alignment.LEADING,
jPanel3Layout.createSequentialGroup()

                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
                    .addComponent(jLabel14)
                    .addComponent(jLabel15)
                    .addComponent(jLabel16)
                    .addComponent(jLabel8))
                    .addGap(48, 48, 48)

                .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
                    .addComponent(txt_pc,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 168,
javax.swing.GroupLayout.PREFERRED_SIZE)

                    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
TRAILING)
                        .addComponent(txt_apr,
javax.swing.GroupLayout.PREFERRED_SIZE, 168,
javax.swing.GroupLayout.PREFERRED_SIZE)

                        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
TRAILING, false)
                            .addComponent(txt_add2,
javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addComponent(txt_address,
javax.swing.GroupLayout.PREFERRED_SIZE, 168,
javax.swing.GroupLayout.PREFERRED_SIZE))))))

        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(57, 57, 57)
                .addComponent(jDesktopPane1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGroup(jPanel3Layout.createSequentialGroup()
                .addGap(243, 243, 243)

        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
            .addComponent(jButton3,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 134,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(cmd_save,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 134,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jButton1,
javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 134,
javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addContainerGap(112, Short.MAX_VALUE))
    );
    jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
jPanel3Layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jDesktopPane1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(cmd_save, javax.swing.GroupLayout.PREFERRED_SIZE,
44, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(32, 32, 32)
        .addComponent(jButton3, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```
.addGap(37, 37, 37)
.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 44,
javax.swing.GroupLayout.PREFERRED_SIZE)
.addGap(93, 93, 93))
.addGroup(jPanel3Layout.createSequentialGroup())
.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
TRAILING)
.addComponent(jLabel5)
.addComponent(txt_studentid,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
.addComponent(jLabel1)
.addComponent(txt_firstname,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
.addComponent(jLabel2)
.addComponent(txt_surname,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
.addComponent(jLabel3)
.addComponent(txt_dob, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))

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

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
```

```

        .addComponent(jLabel11)
        .addComponent(r_male)
        .addComponent(r_female))

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

    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
    BASELINE)
        .addComponent(txt_email, javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel6))

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

    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
    BASELINE)
        .addComponent(txt_tel, javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel7))

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

    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
    BASELINE)
        .addComponent(txt_address,
        javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel8))

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

    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
    BASELINE)
        .addComponent(txt_add2, javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel14))

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

    .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
    BASELINE)
        .addComponent(txt_apr, javax.swing.GroupLayout.PREFERRED_SIZE,
        javax.swing.GroupLayout.DEFAULT_SIZE,
        javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(jLabel15))

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

        .addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
            .addComponent(jLabel16)
            .addComponent(txt_pc, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(39, 39, 39)
            .addComponent(button2, javax.swing.GroupLayout.PREFERRED_SIZE, 42,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );

    txt_emp.setText("emp");

    jLabel10.setText("Logged in As :");

    jPanel5.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "Search",
javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Adobe
Arabic", 1, 14))); // NOI18N

    jLabel13.setText("Student ID :");

    txt_search1.addContainerListener(new java.awt.event.ContainerAdapter() {
        public void componentRemoved(java.awt.event.ContainerEvent evt) {
            txt_search1.ComponentRemoved(evt);
        }
    });
    txt_search1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            txt_search1.ActionPerformed(evt);
        }
    });
    txt_search1.addKeyListener(new java.awt.event.KeyAdapter() {
        public void keyReleased(java.awt.event.KeyEvent evt) {
            txt_search1.KeyReleased(evt);
        }
    });

    javax.swing.GroupLayout jPanel5Layout = new
javax.swing.GroupLayout(jPanel5);
    jPanel5.setLayout(jPanel5Layout);
    jPanel5Layout.setHorizontalGroup(

```

```

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel5Layout.createSequentialGroup()
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE)
        .addComponent(jLabel13)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(txt_search1, javax.swing.GroupLayout.PREFERRED_SIZE,
565, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(8, 8, 8))
    );
jPanel5Layout.setVerticalGroup(

jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel5Layout.createSequentialGroup()
        .addContainerGap()

        .addGroup(jPanel5Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
            .addComponent(txt_search1,
javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel13))
            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );

File.setText("File");

jMenuItem1.setText("Attach Image");
jMenuItem1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jMenuItem1ActionPerformed(evt);
    }
});
File.add(jMenuItem1);

jMenuBar1.add(File);

lbl_date.setText("Date");
jMenuBar1.add(lbl_date);

lbl_time.setText("Time");
jMenuBar1.add(lbl_time);

setJMenuBar(jMenuBar1);

```

```

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .add(layout.createParallelGroup(
                    javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addGap(415, 415, 415)
                        .addComponent(jLabel10))
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(txt_emp))
            .addGroup(layout.createParallelGroup(
                javax.swing.GroupLayout.Alignment.LEADING)
                    .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(
            javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .add(jPanel5, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                .add(jLabel10, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .add(txt_emp))
    );

```



```

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap()
    );

```

```

    pack();
} // </editor-fold> // GEN-END: initComponents

```

```

private void jMenuItem1ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_jMenuItem1ActionPerformed
    // TODO add your handling code here:

```

```

        JFileChooser chooser = new JFileChooser();
        chooser.showOpenDialog(null);
        File f = chooser.getSelectedFile();

```

```

        filename = f.getAbsolutePath();
        ImageIcon imageIcon = new ImageIcon(new
ImageIcon(filename).getImage().getScaledInstance(lbl_img.getWidth(),
lbl_img.getHeight(), Image.SCALE_DEFAULT));
        lbl_img.setIcon(imageIcon);
        try {

```

```

            File image = new File(filename);
            FileInputStream fis = new FileInputStream (image);
            ByteArrayOutputStream bos= new ByteArrayOutputStream();
            byte[] buf = new byte[1024];

```

```

            for(int readNum; (readNum=fis.read(buf))!=-1; ){

```

```

                bos.write(buf,0,readNum);
            }
            person_image=bos.toByteArray();
        }

```

```

        catch(Exception e){
            JOptionPane.showMessageDialog(null,e);
        }

```

```

} // GEN-LAST:event_jMenuItem1ActionPerformed

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_jButton1ActionPerformed
    // TODO add your handling code here:

```

```

txt_firstname.setText("");
txt_surname.setText("");
txt_tel.setText("");
txt_dob.setText("");
txt_email.setText("");
txt_address.setText("");

txt_studentid.setText("");

txt_add2.setText("");
txt_pc.setText("");
txt_apr.setText("");
lbl_img.setIcon(null);
txt_search1.setText("");
} // GEN-LAST:event_jButton1ActionPerformed

private void cmd_saveActionPerformed(java.awt.event.ActionEvent evt) { // GEN-FIRST:event_cmd_saveActionPerformed
    // TODO add your handling code here:
    int p = JOptionPane.showConfirmDialog(null, "Are you sure you want to add record?", "Add Record", JOptionPane.YES_NO_OPTION);

    if(p==0){

        String value110 = txt_firstname.getText();
        String value2 = txt_surname.getText();
        String value3 = txt_dob.getText();
        String value4 = txt_studentid.getText();
        String value5 = txt_email.getText();
        String value6 = txt_tel.getText();
        String value7 = txt_address.getText();
        String value9 = txt_add2.getText();
        String value10 = txt_apr.getText();
        String value11 = txt_pc.getText();
        try {
            StudentData stud= new
StudentData(value110,value2,value3,value4,value5,value6,value7,value9,value10,value11);
        } catch (IOException ex) {
            Logger.getLogger(StudentInformation.class.getName()).log(Level.SEVERE,
null, ex);
        } catch (InterruptedException ex) {
            Logger.getLogger(StudentInformation.class.getName()).log(Level.SEVERE,
null, ex);
        }
    }
}

```

```
JOptionPane.showMessageDialog(null,"Data is saved successfully");
```

```
Date currentDate = GregorianCalendar.getInstance().getTime();  
DateFormat df = DateFormat.getDateInstance();  
String dateString = df.format(currentDate);
```

```
Date d = new Date();  
SimpleDateFormat sdf = new SimpleDateFormat("HH:mm:ss");  
String timeString = sdf.format(d);
```

```
String value0 = timeString;  
String value1 = dateString;  
String val = txt_emp.getText().toString();
```

```
}
```

```
}//GEN-LAST:event_cmd_saveActionPerformed
```

```
private void txt_apptActionPerformed(java.awt.event.ActionEvent evt) {//GEN-  
FIRST:event_txt_apptActionPerformed  
    // TODO add your handling code here:  
}//GEN-LAST:event_txt_apptActionPerformed
```

```
private void txt_firstnameActionPerformed(java.awt.event.ActionEvent evt) {//GEN-  
FIRST:event_txt_firstnameActionPerformed  
    // TODO add your handling code here:  
}//GEN-LAST:event_txt_firstnameActionPerformed
```

```
private void r_femaleActionPerformed(java.awt.event.ActionEvent evt) {//GEN-  
FIRST:event_r_femaleActionPerformed  
    // TODO add your handling code here:  
    gender ="Female";  
    r_female.setSelected(true);  
    r_male.setSelected(false);
```

```

} //GEN-LAST:event_r_femaleActionPerformed

private void r_maleActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_r_maleActionPerformed
    // TODO add your handling code here:
    gender = "Male";
    r_male.setSelected(true);
    r_female.setSelected(false);
} //GEN-LAST:event_r_maleActionPerformed

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton3ActionPerformed
    // TODO add your handling code here:

    int p = JOptionPane.showConfirmDialog(null, "Are you sure you want to delete record?", "Delete", JOptionPane.YES_NO_OPTION);
    if (p == 0) {
        Date currentDate = GregorianCalendar.getInstance().getTime();
        DateFormat df = DateFormat.getDateInstance();
        String dateString = df.format(currentDate);

        Date d = new Date();
        SimpleDateFormat sdf = new SimpleDateFormat("HH:mm:ss");
        String timeString = sdf.format(d);

        String value0 = timeString;
        String value1 = dateString;
        String val = txt_emp.getText().toString();

        try {
            String notobedel = String.valueOf(txt_studentid.getText());
            File f1 = new File("output.txt");
            BufferedWriter writer;
            writer = new BufferedWriter(new FileWriter(f1));
            Scanner sc = new Scanner(f1);
            while (sc.hasNextLine()) { String data = sc.nextLine();
                String variable[] = data.split("\\s+");
                String da = data.trim();
                String studid = variable[3];
                if (studid.equals(notobedel)) {
                    continue;
                }
                writer.write(data + System.lineSeparator());
            }
            writer.close();
            sc.close();
        }

        JOptionPane.showMessageDialog(null, "Record Deleted");
    }
}

```

```

    }catch(Exception e){

        JOptionPane.showMessageDialog(null, e);
    }finally {

        try{
            rs.close();
            pst.close();

        }
        catch(Exception e){

        }
    }

}

}

//GEN-LAST:event_jButton3ActionPerformed

private void txt_search1ComponentRemoved(java.awt.event.ContainerEvent evt) {
//GEN-FIRST:event_txt_search1ComponentRemoved
    // TODO add your handling code here:
}
//GEN-LAST:event_txt_search1ComponentRemoved

private void txt_search1ActionPerformed(java.awt.event.ActionEvent evt) {
//GEN-FIRST:event_txt_search1ActionPerformed

    File f = new File("output.txt");

Scanner sc = null;
    try {
        sc = new Scanner(f);
    } catch (FileNotFoundException ex) {
        Logger.getLogger(StudentInformation.class.getName()).log(Level.SEVERE,
null, ex);
    }
while(sc.hasNextLine()){
    String data = sc.nextLine();
String variable[] = data.split("\\s+");
String p=variable[3];
    if(p.equals(String.valueOf(this.txt_search1.getText()))){//linear Search


        this.txt_studentid.setText(variable[3]);
this.txt_firstname.setText(variable[0]);
this.txt_surname.setText(variable[1]);
// this.jcmbDepartment.setText(variable[4]);

```

```

        this.txt_dob.setText(variable[2]);
        this.txt_email.setText(variable[4]);
        this.txt_tel.setText(variable[5]);
        this.txt_address.setText(variable[6]);
        this.txt_add2.setText(variable[7]);
        this.txt_apr.setText(variable[8]);
        this.txt_pc.setText(variable[9]);

    }

}

} //GEN-LAST:event_txt_search1ActionPerformed

private void txt_search1KeyReleased(java.awt.event.KeyEvent evt) { //GEN-FIRST:event_txt_search1KeyReleased
    // TODO add your handling code here:
    try{

        String sql ="select * from Student_Information where id=? ";

        pst=conn.prepareStatement(sql);
        pst.setString(1,txt_search1.getText());
        rs=pst.executeQuery();

        String add1 =rs.getString("id");
        txt_studentid.setText(add1);

        String add2 =rs.getString("first_name");
        txt_firstname.setText(add2);

        String add3 =rs.getString("surname");
        txt_surname.setText(add3);

        String add4 =rs.getString("Dob");
        txt_dob.setText(add4);

        String add5 =rs.getString("Email");
        txt_email.setText(add5);

        String add6 =rs.getString("Telephone");
        txt_tel.setText(add6);

        String add7 =rs.getString("Address");
        txt_address.setText(add7);

        String add8 =rs.getString("Address2");
        txt_add2.setText(add8);
    }
}

```

```
String add9 =rs.getString("Apartment");
txt_appt.setText(add9);
```

```
String add10 =rs.getString("Post_code");
txt_pc.setText(add10);
```

```
byte[] img = rs.getBytes("Image");
Imagelcon imagelcon = new Imagelcon(new
Imagelcon(img).getImage().getScaledInstance(lbl_img.getWidth(),
lbl_img.getHeight(), Image.SCALE_SMOOTH));
lbl_img.setIcon(imagelcon);
```

```
}catch(Exception e){
```

```
}
```

```
finally {
```

```
try{
```

```
rs.close();
```

```
pst.close();
```

```
}
```

```
catch(Exception e){
```

```
}
```

```
}
```

```
//GEN-LAST:event_txt_search1KeyReleased
```

```
private void button2ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_button2ActionPerformed
```

```
new Choice(String.valueOf(this.txt_studentid.getText())).setVisible(true);    //
TODO add your handling code here:
```

```
//GEN-LAST:event_button2ActionPerformed
```

```
private void txt_addressActionPerformed(java.awt.event.ActionEvent evt) {//GEN-
FIRST:event_txt_addressActionPerformed
```

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

```
//GEN-LAST:event_txt_addressActionPerformed
```

```
public static void main(String args[]) {
```

```
try {
```

```
for (javax.swing.UIManager.LookAndFeelInfo info :
```

```

javafx.swing.UIManager.getInstalledLookAndFeels() {
    if ("Nimbus".equals(info.getName())) {
        javafx.swing.UIManager.setLookAndFeel(info.getClassName());
        break;
    }
}
} catch (ClassNotFoundException ex) {

```

```

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

```

```

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

```

```

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

```

```

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

```

```

//</editor-fold>
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```

```

/* Create and display the form */

```

```

java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new StudentInformation().setVisible(true);
    }
});
}

```



```
// Variables declaration - do not modify//GEN-BEGIN:variables
```

```
private javax.swing.JMenu File;  
private java.awt.Button button2;  
private javax.swing.JButton cmd_save;  
private javax.swing.JButton jButton1;  
private javax.swing.JButton jButton3;  
private javax.swing.JDesktopPane jDesktopPane1;  
private javax.swing.JDialog jDialog1;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JLabel jLabel10;  
private javax.swing.JLabel jLabel11;  
private javax.swing.JLabel jLabel13;  
private javax.swing.JLabel jLabel14;  
private javax.swing.JLabel jLabel15;  
private javax.swing.JLabel jLabel16;  
private javax.swing.JLabel jLabel2;  
private javax.swing.JLabel jLabel3;  
private javax.swing.JLabel jLabel5;  
private javax.swing.JLabel jLabel6;  
private javax.swing.JLabel jLabel7;  
private javax.swing.JLabel jLabel8;  
private javax.swing.JMenu jMenu1;  
private javax.swing.JMenu jMenu2;  
private javax.swing.JMenuBar jMenuBar1;  
private javax.swing.JMenuBar jMenuBar2;  
private javax.swing.JMenuItem jMenuItem1;  
private javax.swing.JPanel jPanel3;  
private javax.swing.JPanel jPanel5;  
private javax.swing.JMenu lbl_date;  
private javax.swing.JLabel lbl_img;  
private javax.swing.JMenu lbl_time;  
private javax.swing.JRadioButton r_female;  
private javax.swing.JRadioButton r_male;  
private javax.swing.JTextField txt_add2;  
private javax.swing.JTextField txt_address;  
private javax.swing.JTextField txt_apt;  
private javax.swing.JTextField txt_dob;  
private javax.swing.JTextField txt_email;  
private javax.swing.JLabel txt_emp;  
private javax.swing.JTextField txt_firstname;  
private javax.swing.JTextField txt_pc;  
private javax.swing.JTextField txt_search1;  
private javax.swing.JTextField txt_studentid;  
private javax.swing.JTextField txt_surname;  
private javax.swing.JTextField txt_tel;  
// End of variables declaration//GEN-END:variables
```

```
private ImageIcon format =null;
```

```

//strin filename
String filename = null;
byte[] person_image = null;

private String gender;

}

package student.information.system;

import java.awt.*;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import javax.swing.*;
public class users extends javax.swing.JFrame {
    Connection conn=null;
    ResultSet rs=null;
    PreparedStatement pst=null;

    public users() {
        initComponents();
        conn=db.java_db();
        Toolkit toolkit = getToolkit();
        Dimension size = toolkit.getScreenSize();
        setLocation(size.width/2 - getWidth()/2,
            size.height/2 - getHeight()/2);
        Fillcombobox();
    }
    private void Fillcombobox(){

        try {
            String sql ="select * from Users";
            pst=conn.prepareStatement(sql);
            rs=pst.executeQuery();

            while(rs.next()) {
                String name =rs.getString("username");
                txt_combo.addItem(name);
            }
        }catch (Exception e){

            JOptionPane.showMessageDialog(null, e);
        } finally {

            try{
                rs.close();
            }

```

```

        pst.close();

    }catch (Exception e){

    }

}

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

    jPanel2 = new javax.swing.JPanel();
    cmd_add = new javax.swing.JButton();
    jPanel1 = new javax.swing.JPanel();
    jLabel1 = new javax.swing.JLabel();
    txt_password = new javax.swing.JTextField();
    txt_combo = new javax.swing.JComboBox();
    jLabel3 = new javax.swing.JLabel();
    txt_username = new javax.swing.JTextField();
    jLabel2 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    txt_id = new javax.swing.JTextField();
    jLabel5 = new javax.swing.JLabel();
    txt_dep = new javax.swing.JTextField();
    cmd_delete = new javax.swing.JButton();
    cmd_update = new javax.swing.JButton();
    jButton1 = new javax.swing.JButton();

    setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

    cmd_add.setIcon(new javax.swing.ImageIcon(getClass().getResource("/student/information/system/images/Save-icon.png"))); // NOI18N
    cmd_add.setText("Add ");
    cmd_add.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            cmd_addActionPerformed(evt);
        }
    });

    jPanel1.setBorder(javax.swing.BorderFactory.createTitledBorder(null,
"Login_Information", javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Adobe
Arabic", 1, 18))); // NOI18N

    jLabel1.setText("Select Users");

```

```

        txt_combo.addPopupMenuListener(new
javax.swing.event.PopupMenuListener() {
    public void popupMenuCanceled(javax.swing.event.PopupMenuEvent evt) {
    }
    public void
popupMenuWillBecomeInvisible(javax.swing.event.PopupMenuEvent evt) {
    txt_comboPopupMenuWillBecomeInvisible(evt);
    }
    public void
popupMenuWillBecomeVisible(javax.swing.event.PopupMenuEvent evt) {
    }
});

jLabel3.setText("Password");

jLabel2.setText("Username");

jLabel4.setText("Id");

txt_id.setEditable(false);

jLabel5.setText("Division");

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

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .add(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(jPanel1Layout.createSequentialGroup()
                .add(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                    .add(jLabel2,
javax.swing.GroupLayout.Alignment.LEADING)
                    .add(jLabel3,
javax.swing.GroupLayout.Alignment.LEADING)
                    .addGap(29, 29, 29))
                .addGap(29, 29, 29))
            .addGroup(jPanel1Layout.createSequentialGroup()
                .add(jLabel4,
javax.swing.GroupLayout.Alignment.LEADING)
                .add(jLabel5,
javax.swing.GroupLayout.Alignment.LEADING)
                .add(txt_id,
javax.swing.GroupLayout.Alignment.LEADING)
                .add(txt_combo,
javax.swing.GroupLayout.Alignment.LEADING)
                .addContainerGap())
            .addGroup(jPanel1Layout.createSequentialGroup()
                .add(jLabel1,
javax.swing.GroupLayout.Alignment.LEADING)
                .addContainerGap())
        )
    )
);

```

```

        .addGroup(jPanel1Layout.createSequentialGroup()
            .addComponent(jLabel5)
            .addGap(20, 20, 20)))
        .addGroup(jPanel1Layout.createSequentialGroup()

            .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
                .addComponent(jLabel4)
                .addComponent(jLabel1))

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

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
TRAILING, false)
            .addComponent(txt_dep)
            .addComponent(txt_password,
javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(txt_username,
javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(txt_combo,
javax.swing.GroupLayout.Alignment.LEADING, 0, 160, Short.MAX_VALUE)
            .addComponent(txt_id, javax.swing.GroupLayout.Alignment.LEADING))
            .addContainerGap(42, Short.MAX_VALUE))
        );
        jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel1Layout.createSequentialGroup()
        .addContainerGap(25, Short.MAX_VALUE)

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
            .addComponent(txt_combo, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel1))

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

        .addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
BASELINE)
            .addComponent(txt_id, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel4))

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

```

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.  
BASELINE)
```

```
    .addComponent(jLabel5)  
    .addComponent(txt_dep, 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.GroupLayout.Alignment.  
BASELINE)
```

```
    .addComponent(txt_username,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(jLabel2))
```

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

```
.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.  
BASELINE)
```

```
    .addComponent(txt_password,  
javax.swing.GroupLayout.PREFERRED_SIZE,  
javax.swing.GroupLayout.DEFAULT_SIZE,  
javax.swing.GroupLayout.PREFERRED_SIZE)  
    .addComponent(jLabel3))  
    .addContainerGap()
```

```
);
```

```
cmd_delete.setIcon(new javax.swing.ImageIcon(getClass().getResource("/  
student/information/system/images/delete_16x16.gif"))); // NOI18N
```

```
cmd_delete.setText("Delete");  
cmd_delete.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        cmd_deleteActionPerformed(evt);  
    }  
});
```

```
cmd_update.setIcon(new javax.swing.ImageIcon(getClass().getResource("/  
student/information/system/images/update icon.png"))); // NOI18N
```

```
cmd_update.setText("Update");  
cmd_update.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        cmd_updateActionPerformed(evt);  
    }  
});
```

```
jButton1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/student/
```

```

information/system/images/erase-128.png")))); // NOI18N
    jButton1.setText("Clear");
    jButton1.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton1ActionPerformed(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(18, 18, 18)
        .addComponent(jPanel1, 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.
LEADING, false)
            .addComponent(cmd_add, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(cmd_delete, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(cmd_update, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGap(40, 40, 40))
    );
    jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(jPanel2Layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.
LEADING)
            .addGroup(jPanel2Layout.createSequentialGroup()
                .addGap(48, 48, 48)
                .addComponent(cmd_add)

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

                .addComponent(cmd_update)
            )
        )
    )

```

```

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

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jButton1))
        .addGroup(jPanel2Layout.createSequentialGroup())
        .addGap(28, 28, 28)
        .addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
    );

    javax.swing.GroupLayout layout = new
javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(layout.createParallelGroup(
                javax.swing.GroupLayout.Alignment.LEADING)
                .add(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(11, Short.MAX_VALUE))
            .addContainerGap())
        .addGroup(layout.createParallelGroup(
                javax.swing.GroupLayout.Alignment.LEADING)
                .add(jPanel1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addContainerGap(11, Short.MAX_VALUE))
            .addContainerGap())
    );

    pack();
} // </editor-fold> // GEN-END: initComponents

private void cmd_deleteActionPerformed(java.awt.event.ActionEvent evt) { // GEN-
FIRST:event_cmd_deleteActionPerformed
    // TODO add your handling code here:

    int p = JOptionPane.showConfirmDialog(null, "Are you sure you want to delete
record?", "Delete", JOptionPane.YES_NO_OPTION);
    if (p == 0) {
        String sql = "delete from Users where username=? ";
    }
}

```



```

try{
    pst=conn.prepareStatement(sql);
    pst.setString(1, txt_username.getText());
    pst.execute();
    JOptionPane.showMessageDialog(null,"Record Deleted");

}catch(Exception e){

    JOptionPane.showMessageDialog(null, e);
}finally {

    try{
        rs.close();
        pst.close();

    }
    catch(Exception e){

    }

}

}
Fillcombobox();
}

//GEN-LAST:event_cmd_deleteActionPerformed

private void
txt_comboPopupMenuWillBecomeInvisible(javax.swing.event.PopupMenuEvent evt)
{
//GEN-FIRST:event_txt_comboPopupMenuWillBecomeInvisible

    String tmp =(String) txt_combo.getSelectedItem();
    String sql="select * from Users where username=?";

    try{
        pst=conn.prepareStatement(sql);
        pst.setString(1, tmp);
        rs=pst.executeQuery();

        if(rs.next()){

            String add1 =rs.getString("username");
            txt_username.setText(add1);

            String add2 =rs.getString("password");
            txt_password.setText(add2);

            String add3 =rs.getString("id");

```

```

        txt_id.setText(add3);

        String add4 =rs.getString("division");
        txt_dep.setText(add4);

    }

}catch (Exception e){
    JOptionPane.showMessageDialog(null, e);
}
finally {

    try{
        rs.close();
        pst.close();

    }
    catch(Exception e){

    }

}
} // TODO add your handling code here:

```

```

} //GEN-LAST:event_txt_comboPopupMenuWillBecomeInvisible

```

```

private void cmd_updateActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_cmd_updateActionPerformed
    // TODO add your handling code here:
    int p = JOptionPane.showConfirmDialog(null, "Are you sure you want to update record?","Update Record",JOptionPane.YES_NO_OPTION);
    if(p==0){
        try{

            String value1 = txt_id.getText();
            String value2 = txt_username.getText();
            String value3 = txt_password.getText();
            String value4 = txt_dep.getText();

            String sql= "update Users set id='"+value1+"', username='"+value2+"', password='"+value3+"',division='"+value4+"' where id='"+value1+"' ";

            pst=conn.prepareStatement(sql);
            pst.execute();
            JOptionPane.showMessageDialog(null, "Record Updated");

        }catch(Exception e){

```

```

JOptionPane.showMessageDialog(null, e);
}
finally {

    try{
        rs.close();
        pst.close();

    }
    catch(Exception e){

    }

}
}
Fillcombobox();
} //GEN-LAST:event_cmd_updateActionPerformed

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton1ActionPerformed
    // TODO add your handling code here:
    txt_username.setText("");
    txt_password.setText("");
    txt_dep.setText("");
    txt_id.setText("");
} //GEN-LAST:event_jButton1ActionPerformed

private void cmd_addActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_cmd_addActionPerformed
    int p = JOptionPane.showConfirmDialog(null, "Are you sure you want to add record?", "Add Record", JOptionPane.YES_NO_OPTION);
    if(p==0){ // TODO add your handling code here:

        try {

            String sql ="insert into Users (username,password,division) values (?,?,?) ";

            pst=conn.prepareStatement(sql);
            pst.setString(1,txt_username.getText());
            pst.setString(2,txt_password.getText());
            pst.setString(3,txt_dep.getText());

            pst.execute();
            JOptionPane.showMessageDialog(null,"Data is saved successfully");

        }
        catch (Exception e)

        {

```

```

        JOptionPane.showMessageDialog(null,e);
    }
    finally {

        try{
            rs.close();
            pst.close();

        }
        catch(Exception e){

        }

    }
}
Fillcombobox();
} //GEN-LAST:event_cmd_addActionPerformed

/**
 * @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(users.class.getName()).log(java.util.logging.Level.
SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

        java.util.logging.Logger.getLogger(users.class.getName()).log(java.util.logging.Level.

```

```
SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

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

```
    }
    //</editor-fold>
    //</editor-fold>
    //</editor-fold>
    //</editor-fold>
```

```
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new users().setVisible(true);
        }
    });
}
```

```
// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton cmd_add;
private javax.swing.JButton cmd_delete;
private javax.swing.JButton cmd_update;
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JPanel jPanel1;
private javax.swing.JPanel jPanel2;
private javax.swing.JComboBox txt_combo;
private javax.swing.JTextField txt_dep;
private javax.swing.JTextField txt_id;
private javax.swing.JTextField txt_password;
private javax.swing.JTextField txt_username;
// End of variables declaration//GEN-END:variables
}
```