

Appendix 5- NetBeans Code

Annotated comments on the code below are in the bold and blue colour.

Class 1: Appointments

```
package IADentalClinic;

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.text.DateFormat;// importing date formatting
import java.text.ParseException;
import java.text.SimpleDateFormat;
import java.util.Calendar;//importing calender method
import java.util.Date;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.JTextField;

public class Appointments extends javax.swing.JFrame {
    Connection conn=null;
    PreparedStatement pst=null;
    int rst;// connecting to the database

    public Appointments() {
        initComponents();
        conn=MySQLConnect.ConnectDB();
        getID();//performing get ID when form is opened
    }
    public void getID()
{//get ID performed
    int tempid=0;
    try{
        String sql2="select * from appointments";
        pst=conn.prepareStatement(sql2);//selecting data from appointments
        ResultSet rs=pst.executeQuery();
        while(rs.next())
        {
            tempid = rs.getInt(1);
        }
        this.tfID.setText(Integer.toString(tempid+1));
    } catch (SQLException ex) {
        JOptionPane.showMessageDialog(null, ex);
    }
}
```

```

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jSeparator1 = new javax.swing.JSeparator();
    jLabel2 = new javax.swing.JLabel();
    tfName = new javax.swing.JTextField();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    bSave = new javax.swing.JButton();
    dcDate = new com.toedter.calendar.JDateChooser();
    tfTime = new javax.swing.JFormattedTextField();
    jLabel5 = new javax.swing.JLabel();
    tfID = new javax.swing.JTextField();

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 18)); // NOI18N
    jLabel1.setText("Appointment Scheduling");

    jLabel2.setText("Patient Name:");

    jLabel3.setText("Date:");

    jLabel4.setText("Time:");

    bSave.setText("Save");
    bSave.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            bSaveActionPerformed(evt);
        }
    });

    dcDate.setDateFormatString("yyyy-MM-dd");

    try {
        tfTime.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("##:##")));
    } catch (java.text.ParseException ex) {
        ex.printStackTrace();
    }
}

```

```

    }
    tfTime.addKeyListener(new java.awt.event.KeyAdapter() {
        public void keyTyped(java.awt.event.KeyEvent evt) {
            tfTimeKeyTyped(evt);
        }
    });

    jLabel5.setText("Appt ID:");

    tfID.setEditable(false);
    tfID.setText(" ");

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);
    layout.setHorizontalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
                layout.createSequentialGroup()
                    .addGap(0, 0, Short.MAX_VALUE)
                    .addComponent(bSave)
                    .addGroup(layout.createSequentialGroup()
                        .addGap(125, 125, 125)
                        .addComponent(jLabel1)
                        .addGap(0, 104, Short.MAX_VALUE))
                    .addComponent(jSeparator1)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
                        layout.createSequentialGroup()
                            .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(jLabel2)
                                .addGroup(layout.createSequentialGroup()
                                    .addGap(11, 11, 11)

                                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
                                        .addComponent(jLabel4)
                                        .addComponent(jLabel3))))
                                    .addGap(38, 38, 38)

                                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
                                        .addComponent(tfName)
                                        .addGroup(layout.createSequentialGroup()
                                            .addComponent(dcDate, javax.swing.GroupLayout.Alignment.LEADING,
                                                javax.swing.GroupLayout.PREFERRED_SIZE, 166, javax.swing.GroupLayout.PREFERRED_SIZE)
                                            .addComponent(tfTime, javax.swing.GroupLayout.Alignment.LEADING,
                                                javax.swing.GroupLayout.PREFERRED_SIZE, 136,
                                                javax.swing.GroupLayout.PREFERRED_SIZE))
                                            .addGap(58, 58, 58))
                                )
                            )
                    )
            )
    );

```

```

        .addGroup(layout.createSequentialGroup())
        .addContainerGap()
        .addComponent(jLabel5)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE, 38,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addGap(19, 19, 19)
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel5)
            .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 14,
Short.MAX_VALUE)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(27, 27, 27)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel3)
            .addComponent(dcDate, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jLabel4)
            .addComponent(tfTime, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(37, 37, 37)
            .addComponent(bSave))
    );

    setSize(new java.awt.Dimension(458, 328));
    setLocationRelativeTo(null);

```

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

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

```
    String Sql="insert into appointments values (?, ?, ?, ?)";
```

```
    try{//inserting the input data into the appoitnments database
```

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

```
        pst.setString(1,this.tfID.getText());
```

```
        pst.setString(2,this.tfName.getText());
```

```
        pst.setString(3,((JTextField)this.dcDate.getDateEditor().getUiComponent()).getText());
```

```
        pst.setString(4,this.tfTime.getText());
```

```
        int i = pst.executeUpdate();
```

```
        if(i>0)
```

```
        {
```

```
            JOptionPane.showMessageDialog(null, "Appointment Scheduled");// message  
shown when data is successfully added
```

```
            if (login.glv==1)//once saved, return to dashboard depending on global variable  
value
```

```
            {
```

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

```
                new AdminDashboard().setVisible(true);
```

```
            }
```

```
            else
```

```
            {
```

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

```
                new EmployeeDashboard().setVisible(true);
```

```
            }
```

```
        }
```

```
        else
```

```
        {
```

```
            JOptionPane.showMessageDialog(null,"Error in Scheduling");
```

```
        }// error message when data save failed
```

```
    }
```

```
    catch(HeadlessException | SQLException e){
```

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

```
    }
```

```
}
```

```
private void tfTimeKeyTyped(java.awt.event.KeyEvent evt) {
```

```
    char c=evt.getKeyChar();//inputing time into the database
```

```
    if(!(Character.isDigit(c)))
```

```
        evt.consume();
```

```
}
```

```

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

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

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

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

```

```
// Variables declaration - do not modify
private javax.swing.JButton bSave;
private com.toedter.calendar.JDateChooser dcDate;
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.JSeparator jSeparator1;
private javax.swing.JTextField tfID;
private javax.swing.JTextField tfName;
private javax.swing.JFormattedTextField tfTime;
// End of variables declaration
}
```

Class 2: AppointmentsSearch

```
/*
 * 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 IADentalClinic;

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.Date;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.JTextField;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;

/**
 *
 * @author aryanghosh
 */
public class AppointmentsSearch extends javax.swing.JFrame {
    Connection conn=null;
    PreparedStatement pst=null;
    PreparedStatement pst1=null;
    PreparedStatement pst2=null;
    ResultSet rs=null;
    ResultSet rs1=null;
    ResultSet rs2=null;

    /**
     * Creates new form AppointmentsSearch
     */
    public AppointmentsSearch() {
        initComponents();
        conn=MySQLConnect.ConnectDB();//database connection
        cboID.removeAllItems();
        cboName.removeAllItems();//combobox to retrieve data
        String sql="select id from appointments";
        try{//selecting data from the appointments database
            pst = conn.prepareStatement(sql);
            ResultSet rs = pst.executeQuery();
```



```

        while(rs.next()){
            String name=rs.getString("id");
            cboID.addItem(name);//stores data in the combobox
        }
    }catch(SQLException e){
        JOptionPane.showMessageDialog(null, e);
    }
    displayItem();//performs displayitem when form is opened

String sql2="select name from appointments";
try{
    pst1 = conn.prepareStatement(sql2);
    ResultSet rs1 = pst1.executeQuery();
    while(rs1.next()){
        String name1=rs1.getString("name");
        cboName.addItem(name1);
    }
}catch(SQLException e){
    JOptionPane.showMessageDialog(null, e);
}
displayItem();
}

public void displayItem()
//performs displayitem when form is opened
String sql1 ="select * from appointments";
try //inserting data from appointments database
    pst1 = conn.prepareStatement(sql1);
    rs=pst1.executeQuery();
    tAppt.setModel(DbUtils.resultSetToTableModel(rs));
} //inserting data in the table 'tAppt'
catch (SQLException ex) {
    Logger.getLogger(NewStaff.class.getName()).log(Level.SEVERE, null, ex);
}
}

public void displayAllItem(String id)
//performs displayallitem
try{
    String sql2 ="select * from appointments where id=?";
    pst1=conn.prepareStatement(sql2);
    pst1.setString(1, id);
    rs1=pst1.executeQuery();
    tAppt.setModel(DbUtils.resultSetToTableModel(rs1));
} catch (SQLException ex) {
    Logger.getLogger(NewStaff.class.getName()).log(Level.SEVERE, null, ex);
}

```

```

    }
    }
    public void displayAllItemName(String name)
    {//performs displayallitemname
    try{
        String sql3 ="select * from appointments where name=?";
        pst2=conn.prepareStatement(sql3);
        pst2.setString(1, name);
        rs2=pst2.executeQuery();
        tAppt.setModel(DbUtils.resultSetToTableModel(rs2));
    } catch (SQLException ex) {
        Logger.getLogger(NewStaff.class.getName()).log(Level.SEVERE, null, ex);
    }
    }
}

```

```

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

```

```

    jScrollPane2 = new javax.swing.JScrollPane();
    jList1 = new javax.swing.JList<>();
    jButton1 = new javax.swing.JButton();
    bRefresh = new javax.swing.JButton();
    jScrollPane1 = new javax.swing.JScrollPane();
    tAppt = new javax.swing.JTable();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    cboID = new javax.swing.JComboBox<>();
    jLabel3 = new javax.swing.JLabel();
    cboName = new javax.swing.JComboBox<>();
    jLabel4 = new javax.swing.JLabel();
    jLabel5 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    tfID = new javax.swing.JTextField();
    tfName = new javax.swing.JTextField();
    bMenu = new javax.swing.JButton();
    bSave = new javax.swing.JButton();
    dcDate = new com.toedter.calendar.JDateChooser();
    bDelete = new javax.swing.JButton();
    tfTime = new javax.swing.JFormattedTextField();

```

```

bRefresh1 = new javax.swing.JButton();

jList1.setModel(new javax.swing.AbstractListModel<String>() {
    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]; }
});
jScrollPane2.setViewportViewView(jList1);

jButton1.setText("jButton1");

bRefresh.setText("Refresh");
bRefresh.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bRefreshActionPerformed(evt);
    }
});

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

tAppt.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"
    }
));
tAppt.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tApptMouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(tAppt);

jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 18)); // NOI18N
jLabel1.setText("Scheduled Appointments");

jLabel2.setText("Name:");

cbolD.addItemListener(new java.awt.event.ItemListener() {
    public void itemStateChanged(java.awt.event.ItemEvent evt) {
        cbolDItemStateChanged(evt);
    }
}

```

```
});

jLabel3.setText("ID:");

cboName.addItemListener(new java.awt.event.ItemListener() {
    public void itemStateChanged(java.awt.event.ItemEvent evt) {
        cboNameItemStateChanged(evt);
    }
});

jLabel4.setText("ID");

jLabel5.setText("Name");

jLabel6.setText("Date");

jLabel7.setText("Time");

tfID.setText(" ");

tfName.setText(" ");

bMenu.setText("Menu");
bMenu.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bMenuActionPerformed(evt);
    }
});

bSave.setText("Save Changes");
bSave.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bSaveActionPerformed(evt);
    }
});

dcDate.setDateFormatString("yyyy-MM-dd");

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

try {
```

```
tfTime.setFormatterFactory(new javax.swing.text.DefaultFormatterFactory(new
javax.swing.text.MaskFormatter("##:##"));
    } catch (java.text.ParseException ex) {
        ex.printStackTrace();
    }
tfTime.addKeyListener(new java.awt.event.KeyAdapter() {
    public void keyTyped(java.awt.event.KeyEvent evt) {
        tfTimeKeyTyped(evt);
    }
});

bRefresh1.setText("Refresh");
bRefresh1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bRefresh1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(32, 32, 32)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(6, 6, 6)
            .addComponent(jLabel4))
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE, 56,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(59, 59, 59)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel5)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE, 94,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel6)
        .addComponent(dcDate, javax.swing.GroupLayout.PREFERRED_SIZE, 135,
javax.swing.GroupLayout.PREFERRED_SIZE)))
```

```

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

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel7)
        .addComponent(tfTime, javax.swing.GroupLayout.PREFERRED_SIZE, 93,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(58, 58, 58))
    .addGroup(layout.createSequentialGroup())

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel2)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(cboName, javax.swing.GroupLayout.PREFERRED_SIZE, 95,
javax.swing.GroupLayout.PREFERRED_SIZE)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel3)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(cboID, javax.swing.GroupLayout.PREFERRED_SIZE, 62,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
512, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGroup(layout.createSequentialGroup())
        .addComponent(bRefresh1)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(jLabel1)
        .addGap(34, 34, 34)
        .addComponent(bMenu, javax.swing.GroupLayout.PREFERRED_SIZE, 97,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addContainerGap(31, Short.MAX_VALUE)))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(bDelete, javax.swing.GroupLayout.PREFERRED_SIZE, 130,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(bSave, javax.swing.GroupLayout.PREFERRED_SIZE, 140,
javax.swing.GroupLayout.PREFERRED_SIZE))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(34, 34, 34)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(bMenu)
    .addComponent(bRefresh1)))
    .addGroup(layout.createSequentialGroup()
        .addGap(14, 14, 14)
        .addComponent(jLabel1)))
    .addGap(26, 26, 26)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2)
    .addComponent(cboName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel3)
    .addComponent(cboID, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 275,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel4)
    .addComponent(jLabel5))

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel7)

```

```

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(tfTime, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel6)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(dcDate, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 68,
Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(bSave)
    .addComponent(bDelete)))
);

setSize(new java.awt.Dimension(575, 588));
setLocationRelativeTo(null);
} // </editor-fold>

```

```

private void bMenuActionPerformed(java.awt.event.ActionEvent evt) {
    if (login.glv==1) //setting condition for global variable
    {
        this.dispose();
        new AdminDashboard().setVisible(true);
    }
    else
    {
        this.dispose();
        new EmployeeDashboard().setVisible(true);
    }
}

```

```

private void bSaveActionPerformed(java.awt.event.ActionEvent evt) {
    String Sql="update appointments set name=?, date=?, time=? where id=?";
    try{ //storing data in the database with new values

        pst=conn.prepareStatement(Sql);

        pst.setString(1,this.tfName.getText());
        pst.setString(2,((JTextField)this.dcDate.getDateEditor().getUiComponent()).getText());
        pst.setString(3,this.tfTime.getText());
        pst.setString(4,this.tfID.getText());

        int i = pst.executeUpdate();
        if(i>0){

```



```

        JOptionPane.showMessageDialog(null, "Appointment Data Updated!");
        this.dispose();
        new AppointmentsSearch().setVisible(true);
    }
    else{
        JOptionPane.showMessageDialog(null, "Error! Data not Saved");
    }
}
catch(HeadlessException | SQLException e){
    JOptionPane.showMessageDialog(null, e);
}
}

private void tApptMouseClicked(java.awt.event.MouseEvent evt) {
    DefaultTableModel model = (DefaultTableModel)tAppt.getModel(); //displaying values
of selecting data in text fields
    int i = tAppt.getSelectedRow();
    this.tfID.setText(model.getValueAt(i, 0).toString());
    this.tfName.setText(model.getValueAt(i, 1).toString());
    this.dcDate.setDate((Date) model.getValueAt(i, 2));
    this.tfTime.setText(model.getValueAt(i, 3).toString());
}

private void cboIDItemStateChanged(java.awt.event.ItemEvent evt) {
    displayAllItem((String) this.cboID.getSelectedItem()); //obtaining data of selected item
}

private void cboNameItemStateChanged(java.awt.event.ItemEvent evt) {
    displayAllItemName((String) this.cboName.getSelectedItem()); //obtaining data of
selected item
}

private void bDeleteActionPerformed(java.awt.event.ActionEvent evt) {
    String Sql="delete from appointments where id=?";
    try{ //removing the data selected from the database
        pst=conn.prepareStatement(Sql);
        pst.setInt(1,Integer.parseInt(this.tfID.getText()));
        int i = pst.executeUpdate();
        if(i>0){
            JOptionPane.showMessageDialog(null, "Appointment Successfully Deleted");
            this.dispose();
            new AppointmentsSearch().setVisible(true);
        }
        else{
            JOptionPane.showMessageDialog(null, "Appointment Data not Deleted!");
        }
    }
}

```

```

    } catch (HeadlessException | SQLException e) {
        JOptionPane.showMessageDialog(null, e);
    }
}

private void tfTimeKeyTyped(java.awt.event.KeyEvent evt) {
    char c=evt.getKeyChar(); //inputing time into the database
    if(!(Character.isDigit(c))) //accepting only time format input data
        evt.consume();
}

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

}

private void bRefresh1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new Appointments().setVisible(true); //refreshing form and reopening same class
}

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

```

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

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

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

```
// Variables declaration - do not modify
private javax.swing.JButton bDelete;
private javax.swing.JButton bMenu;
private javax.swing.JButton bRefresh;
private javax.swing.JButton bRefresh1;
private javax.swing.JButton bSave;
private javax.swing.JComboBox<String> cboID;
private javax.swing.JComboBox<String> cboName;
private com.toedter.calendar.JDateChooser dcDate;
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.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JList<String> jList1;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTable tAppt;
private javax.swing.JTextField tfID;
private javax.swing.JTextField tfName;
private javax.swing.JFormattedTextField tfTime;
// End of variables declaration
```

}

Class 3: Bills

```
package IADentalClinic;

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.swing.JOptionPane;

public class Bills extends javax.swing.JFrame {
    Connection conn=null;
    PreparedStatement pst=null;
    int rst;
    public Bills() {
        initComponents();
        conn=MySQLConnect.ConnectDB(); //database connection
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        jLabel2 = new javax.swing.JLabel();
        Cost = new javax.swing.JLabel();
        jSeparator2 = new javax.swing.JSeparator();
        jSeparator3 = new javax.swing.JSeparator();
        cboProcedure = new javax.swing.JComboBox<>();
        tfCost = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        tfAdd = new javax.swing.JTextField();
        tfTotal = new javax.swing.JTextField();
        jLabel5 = new javax.swing.JLabel();
        cbCash = new javax.swing.JCheckBox();
        tfCash = new javax.swing.JTextField();
        cbCard = new javax.swing.JCheckBox();
        tfCard = new javax.swing.JTextField();
        bSave = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();
        tfName = new javax.swing.JTextField();
        jLabel6 = new javax.swing.JLabel();
    }
}
```

```

bMenu = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 18)); // NOI18N
jLabel1.setText("Patient Bills");

jLabel2.setText("Procedure");

Cost.setText("Cost");

cboProcedure.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "",
"Checkup", "Polishing", "Filling", "Cleaning", "X-ray", "Rootcanal", "Extraction", "Oral Cavity"
}));

tfCost.setText(" ");

jLabel3.setText("Additional Cost:");

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

tfTotal.setText(" ");
tfTotal.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tfTotalActionPerformed(evt);
    }
});

jLabel5.setText("Payment Method:");

cbCash.setText("Cash:");

cbCard.setText("Card:");

bSave.setText("Save and Print");
bSave.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bSaveActionPerformed(evt);
    }
});

jLabel4.setText("Patient Name: ");

```

```

jLabel6.setText("Total Cost:");

bMenu.setText("Menu");
bMenu.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bMenuActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1, javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .createSequentialGroup()
            .addGap(34, 34, 34)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup()
                .createSequentialGroup()
                    .addComponent(jLabel4)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE, 88,
javax.swing.GroupLayout.PREFERRED_SIZE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)
            .addComponent(cboProcedure, javax.swing.GroupLayout.Alignment.LEADING,
0, 0, Short.MAX_VALUE)
            .addGroup(layout.createSequentialGroup()
                .addComponent(jSeparator3, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, 101, Short.MAX_VALUE))
                .addGroup(layout.createSequentialGroup()
                    .addGap(19, 19, 19)
                    .addComponent(jLabel2)))
            .addGap(72, 84, Short.MAX_VALUE))

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
            .addComponent(tfTotal, javax.swing.GroupLayout.DEFAULT_SIZE, 119,
Short.MAX_VALUE)
            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                .createSequentialGroup()
                    .addComponent(tfAdd)
                    .addGap(2, 2, 2)
                    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                        .createSequentialGroup()
                            .addComponent(Cost)
                            .addGap(41, 41, 41))

```

```

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(29, 29, 29))
        .addComponent(tfCost))
        .addGap(53, 53, 53))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jLabel1)
        .addGap(174, 174, 174))
        .addGroup(layout.createSequentialGroup())

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jLabel3))
        .addGroup(layout.createSequentialGroup()
        .addGap(15, 15, 15)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel5)
        .addGroup(layout.createSequentialGroup()
        .addComponent(cbCash)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfCash, javax.swing.GroupLayout.PREFERRED_SIZE, 77,
javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(cbCard)
        .addComponent(jLabel6))))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfCard, javax.swing.GroupLayout.PREFERRED_SIZE, 78,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(98, 98, 98))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(bMenu, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGap(258, 258, 258)
        .addComponent(bSave, javax.swing.GroupLayout.PREFERRED_SIZE, 126,
javax.swing.GroupLayout.PREFERRED_SIZE))
    );

```



```

layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
            .addContainerGap()
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel4)
            .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
            .addGap(37, 37, 37)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel2)
            .addComponent(Cost))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE))
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
            .addGroup(layout.createSequentialGroup())
                .addComponent(cboProcedure, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(129, 129, 129)
                .addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED_SIZE, 16,
javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(18, 18, 18)

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
                .addComponent(cbCash)
                .addComponent(tfCash, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addComponent(cbCard)
                .addComponent(tfCard, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
            .addGroup(layout.createSequentialGroup())

```

```

        .addComponent(tfCost, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(62, 62, 62)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(tfAdd, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel3))
        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(tfTotal, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
            .addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED_SIZE, 26,
javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addGap(25, 25, 25)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(bSave)
            .addComponent(bMenu)))
    );

```

```
tfCost.getAccessibleContext().setAccessibleName("");
```

```
setSize(new java.awt.Dimension(475, 463));
```

```
setLocationRelativeTo(null);
```

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

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

```
String Sql="insert into finances values (?, ?, ?, ?, ?, ?, ?)";
```

```
try{ //storing updated data into the finances database
```

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

```
    pst.setString(1,this.tfName.getText());
```

```
    pst.setString(2, (String) this.cboProcedure.getSelectedItemAt());
```

```
    pst.setString(3,this.tfCost.getText());
```

```
    pst.setString(4,this.tfAdd.getText());
```

```
    pst.setString(5,this.tfTotal.getText());
```

```
    pst.setString(6,this.tfCash.getText());
```

```
    pst.setString(7,this.tfCard.getText());
```

```
    int i = pst.executeUpdate();
```

```
    if(i>0){
```

```
        JOptionPane.showMessageDialog(null, "Invoice Created"); //message displayed  
when bill created
```

```
        new EmployeeDashboard().setVisible(true);
```

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

```

    }
    else{
        JOptionPane.showMessageDialog(null,"Data is not saved");
    }
}
catch(HeadlessException | SQLException e){
    JOptionPane.showMessageDialog(null, e);
}
}

private void bMenuActionPerformed(java.awt.event.ActionEvent evt) {
    if (login.glv==1) //setting global variable for appropriate dashboard
    {
        this.dispose();
        new AdminDashboard().setVisible(true);
    }
    else
    {
        this.dispose();
        new EmployeeDashboard().setVisible(true);
    }
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
    * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Bills.class.getName()).log(java.util.logging.Level.SEVERE,
null, ex);
    } catch (InstantiationException ex) {

```

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

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

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

```
// Variables declaration - do not modify
private javax.swing.JLabel Cost;
private javax.swing.JButton bMenu;
private javax.swing.JButton bSave;
private javax.swing.JCheckBox cbCard;
private javax.swing.JCheckBox cbCash;
private javax.swing.JComboBox<String> cboProcedure;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JSeparator jSeparator2;
private javax.swing.JSeparator jSeparator3;
private javax.swing.JTextField tfAdd;
private javax.swing.JTextField tfCard;
private javax.swing.JTextField tfCash;
private javax.swing.JTextField tfCost;
private javax.swing.JTextField tfName;
private javax.swing.JTextField tfTotal;
// End of variables declaration
}
```

Class 4: EmployeeDashboard

```
package IADentalClinic;

public class EmployeeDashboard extends javax.swing.JFrame {

    /**
     * Creates new form EmployeeDashboard
     */
    public EmployeeDashboard() {
        initComponents();
        login.glv=2; // glv=2 is for employees
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        bSchd = new javax.swing.JButton();
        bBills = new javax.swing.JButton();
        bNotify = new javax.swing.JButton();
        bPatients = new javax.swing.JButton();
        jSeparator1 = new javax.swing.JSeparator();
        bLogout = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 36)); // NOI18N
        jLabel1.setText("Employee Dashboard");

        bSchd.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
        bSchd.setText("Scheduling ");
        bSchd.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                bSchdActionPerformed(evt);
            }
        });

        bBills.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
        bBills.setText("Bills ");
        bBills.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                bBillsActionPerformed(evt);
            }
        });
    }
}
```

```

    }
});

bNotify.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
bNotify.setText("Notify doctor ");
bNotify.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bNotifyActionPerformed(evt);
    }
});

bPatients.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
bPatients.setText("Patients");
bPatients.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bPatientsActionPerformed(evt);
    }
});

bLogout.setText("Logout");
bLogout.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bLogoutActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1, javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(layout.createParallelGroup(
                javax.swing.GroupLayout.Alignment.LEADING, false)
                    .addComponent(bNotify, javax.swing.GroupLayout.PREFERRED_SIZE, 180,
                        javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addComponent(bSchd, javax.swing.GroupLayout.DEFAULT_SIZE,
                        javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
                .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
                    javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                .addComponent(bPatients, javax.swing.GroupLayout.DEFAULT_SIZE, 180,
                    Short.MAX_VALUE))
        .addComponent(bLogout, javax.swing.GroupLayout.DEFAULT_SIZE, 180,
            Short.MAX_VALUE)
);

```

```

        .addGap(33, 33, 33))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addContainerGap(80, Short.MAX_VALUE)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(bLogout)
        .addContainerGap())
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 405,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(67, 67, 67))))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(9, 9, 9)
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(43, 43, 43)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(bPatients, javax.swing.GroupLayout.DEFAULT_SIZE, 61,
Short.MAX_VALUE)
        .addComponent(bSchd, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 60,
Short.MAX_VALUE)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bNotify, javax.swing.GroupLayout.PREFERRED_SIZE, 61,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(bBills, javax.swing.GroupLayout.PREFERRED_SIZE, 61,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 26,
Short.MAX_VALUE)
        .addComponent(bLogout))
    );

    setSize(new java.awt.Dimension(552, 382));
    setLocationRelativeTo(null);
} // </editor-fold>

```

```

private void bPatientsActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new Patients().setVisible(true); //open form patients
}

private void bSchdActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new Appointments().setVisible(true); //open form appointments
}

private void bBillsActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new Bills().setVisible(true); //open form bills
}

private void bLogoutActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new login().setVisible(true); //back to login page
}

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

```



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

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

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

```
// Variables declaration - do not modify
private javax.swing.JButton bBills;
private javax.swing.JButton bLogout;
private javax.swing.JButton bNotify;
private javax.swing.JButton bPatients;
private javax.swing.JButton bSchd;
private javax.swing.JLabel jLabel1;
private javax.swing.JSeparator jSeparator1;
// End of variables declaration
}
```

Class 5: FindPatient

```
/*
 * 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 IADentalClinic;

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.text.MessageFormat;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;

/**
 *
 * @author aryanghosh
 */
public class FindPatient extends javax.swing.JFrame {
    Connection conn=null;
    PreparedStatement pst=null;
    PreparedStatement pst1=null;
    PreparedStatement pst2=null;
    ResultSet rs=null;
    ResultSet rs1=null;
    ResultSet rs2=null; //initialising multiple variables to be used in constructor

    /**
     * Creates new form FindPatient
     */
    public FindPatient() {
        initComponents();
        conn=MySQLConnect.ConnectDB(); //connecting software to database server

        String sql="select id from patients";
        try{ //obtaining data from patients database with respect to ID
            pst = conn.prepareStatement(sql);
            ResultSet rs = pst.executeQuery();
            while(rs.next()){
                String name=rs.getString("id");
```

```

    }
} catch (SQLException e) {
    JOptionPane.showMessageDialog(null, e);
}
displayItem(); //performing displayitem

```

```

String sql2="select name from patients";
try{ //obtaining data from patients database with respect to name
    pst1 = conn.prepareStatement(sql2);
    ResultSet rs1 = pst1.executeQuery();
    while(rs1.next()){
        String name1=rs1.getString("name");
    }
} catch (SQLException e) {
    JOptionPane.showMessageDialog(null, e);
}
displayItem(); //performing displayitem
}

```

```

public void displayItem()
//performs displayitem
    String sql1 ="select * from patients";
    try //Selects data from 'patients' database.
    {
        pst1 = conn.prepareStatement(sql1);
        rs=pst1.executeQuery();
        tPatient.setModel(DbUtils.resultSetToTableModel(rs));
    }
    catch (SQLException ex) {
        Logger.getLogger(NewStaff.class.getName()).log(Level.SEVERE, null, ex);
    }
}

public void displayAllItem(String id)
//performs displayallitem
    try{
        String sql2 ="select * from patients where id=?";//Selects data with respect to id
        pst1=conn.prepareStatement(sql2);
        pst1.setString(1, id);
        rs1=pst1.executeQuery();
        tPatient.setModel(DbUtils.resultSetToTableModel(rs1));
    } catch (SQLException ex) {
        Logger.getLogger(NewStaff.class.getName()).log(Level.SEVERE, null, ex);
    }
}

public void displayAllItemName(String name)
//performs displayallitemname

```

```

try{
    String sql3 ="select * from patients where name=?";//Selects data with respect to
name
    pst2=conn.prepareStatement(sql3);
    pst2.setString(1, name);
    rs2=pst2.executeQuery();
    tPatient.setModel(DbUtils.resultSetToTableModel(rs2));
} catch (SQLException ex) {
    Logger.getLogger(NewStaff.class.getName()).log(Level.SEVERE, null, ex);
}
}
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    bIDSearch = new javax.swing.JButton();
    tfIDSearch = new javax.swing.JTextField();
    jLabel1 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    tPatient = new javax.swing.JTable();
    jLabel2 = new javax.swing.JLabel();
    tfID = new javax.swing.JTextField();
    bMenu = new javax.swing.JButton();
    jLabel3 = new javax.swing.JLabel();
    tfName = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    tfAge = new javax.swing.JTextField();
    jLabel5 = new javax.swing.JLabel();
    tfSex = new javax.swing.JTextField();
    tfAddress = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    tfMob = new javax.swing.JTextField();
    jLabel7 = new javax.swing.JLabel();
    jLabel8 = new javax.swing.JLabel();
    tfEmail = new javax.swing.JTextField();
    jLabel9 = new javax.swing.JLabel();
    tfMed = new javax.swing.JTextField();
    tfTeeth = new javax.swing.JTextField();
    jLabel10 = new javax.swing.JLabel();
    bDelete = new javax.swing.JButton();
    bSave = new javax.swing.JButton();
    jLabel11 = new javax.swing.JLabel();

```

```

jLabel12 = new javax.swing.JLabel();
tfNameSearch = new javax.swing.JTextField();
bNameSearch = new javax.swing.JButton();
bRefresh = new javax.swing.JButton();
bPrint = new javax.swing.JButton();
tfIDSearch1 = new javax.swing.JTextField();
bIDSearch1 = new javax.swing.JButton();

bIDSearch.setText("Search");
bIDSearch.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bIDSearchActionPerformed(evt);
    }
});

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

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 18)); // NOI18N
jLabel1.setText("Patient Search ");

tPatient.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"
    }
));
tPatient.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tPatientMouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(tPatient);

jLabel2.setText("ID:");

tfID.setText(" ");

```

```
bMenu.setText("Menu");
bMenu.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bMenuActionPerformed(evt);
    }
});

jLabel3.setText("Full Name");

tfName.setText(" ");

jLabel4.setText("Age");

tfAge.setText(" ");

jLabel5.setText("Sex");

tfSex.setText(" ");

tfAddress.setText(" ");

jLabel6.setText("Address ");

tfMob.setText(" ");

jLabel7.setText("Mobile No");

jLabel8.setText("Email ID");

tfEmail.setText(" ");

jLabel9.setText("Medical History");

tfMed.setText(" ");

tfTeeth.setText(" ");

jLabel10.setText("Teeth appearance");

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

```

bSave.setText("Save Changes");
bSave.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bSaveActionPerformed(evt);
    }
});

jLabel11.setText("ID");

jLabel12.setText("Name:");

bNameSearch.setText("Search Name");
bNameSearch.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bNameSearchActionPerformed(evt);
    }
});

bRefresh.setText("Refresh");
bRefresh.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bRefreshActionPerformed(evt);
    }
});

bPrint.setText("Print");
bPrint.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bPrintActionPerformed(evt);
    }
});

tfIDSearch1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tfIDSearch1ActionPerformed(evt);
    }
});

bIDSearch1.setText("Search ID");
bIDSearch1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bIDSearch1ActionPerformed(evt);
    }
});

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

```

```

        layout.setHorizontalGroup(
            layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup())
                    .addComponent(bDelete, javax.swing.GroupLayout.PREFERRED_SIZE, 129,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
                    .addComponent(bSave))
                .addGroup(layout.createSequentialGroup())
                    .addContainerGap()

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel6)
    .addComponent(tfAddress, javax.swing.GroupLayout.PREFERRED_SIZE, 268,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(39, 39, 39)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(tfMob, javax.swing.GroupLayout.PREFERRED_SIZE, 268,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel7))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(tfEmail, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 268, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGroup(layout.createSequentialGroup())
        .addGap(4, 4, 4)
        .addComponent(jLabel8)
        .addGap(153, 153, 153)))
    .addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel9)
    .addComponent(tfMed, javax.swing.GroupLayout.PREFERRED_SIZE, 404,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(47, 47, 47)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel10)
        .addGap(0, 0, Short.MAX_VALUE))
    .addComponent(tfTeeth)))

```



```

        .addGroup(layout.createSequentialGroup())

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel2)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfIDSearch1, javax.swing.GroupLayout.PREFERRED_SIZE,
59, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
            .addGap(15, 15, 15)
            .addComponent(bIDSearch1)))

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(9, 9, 9)
            .addComponent(jLabel12)

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfNameSearch,
javax.swing.GroupLayout.PREFERRED_SIZE, 85, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(111, 111, 111)
        .addComponent(jLabel1)
        .addGap(0, 0, Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup()
            .addGap(37, 37, 37)
            .addComponent(bNameSearch)

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

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(bRefresh, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(bMenu, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(bPrint, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
        .addGap(12, 12, 12))))
    .addGroup(layout.createSequentialGroup())

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

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel11)

```

```

        .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(56, 56, 56)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE,
115, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel3))
        .addGap(53, 53, 53)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(jLabel4)
        .addComponent(tfAge, javax.swing.GroupLayout.PREFERRED_SIZE, 55,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(55, 55, 55)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(tfSex, javax.swing.GroupLayout.PREFERRED_SIZE, 55,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel5)))
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE,
870, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(0, 0, Short.MAX_VALUE)))
        .addContainerGap()
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel2)
        .addComponent(bMenu)
        .addComponent(jLabel12)
        .addComponent(jLabel1)
        .addComponent(tfNameSearch, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfIDSearch1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bNameSearch)
        .addComponent(bRefresh)
        .addComponent(bIDSearch1))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(bPrint)

```

```

        .addGap(23, 23, 23)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 228,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3)
        .addComponent(jLabel4)
        .addComponent(jLabel5)
        .addComponent(jLabel11))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfAge, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfSex, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel6)
        .addComponent(jLabel7)
        .addComponent(jLabel8))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfAddress, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfMob, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel9)
        .addComponent(jLabel10))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfMed, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

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

```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bDelete)
        .addComponent(bSave)))
);

```

```

setSize(new java.awt.Dimension(882, 623));
setLocationRelativeTo(null);
} // </editor-fold>

```

```

private void bDeleteActionPerformed(java.awt.event.ActionEvent evt) {
    String Sql="delete from patients where id=?";
    try{// the data is obtained and then deleted from the database
        pst=conn.prepareStatement(Sql);
        pst.setInt(1,Integer.parseInt(this.tfID.getText()));
        int i = pst.executeUpdate();
        if(i>0){
            JOptionPane.showMessageDialog(null, "Patient Successfully Deleted"); //message
displayed when patient data is deleted
            this.dispose();
            new FindPatient().setVisible(true);
        }
        else{
            JOptionPane.showMessageDialog(null,"Patient Data not Deleted!");
        }
        //The 'try-catch' phrases examine errors while connecting to database.
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(null, e);
    }
}

```

```

private void bSaveActionPerformed(java.awt.event.ActionEvent evt) {
    String Sql="update patients set name=?, age=?, sex=?, address=?, mobno=?, email=?,
medicalhistory=?, teethappearance=? where id=?";
    try{// the data is stored in temporary variables and then updates the database

        pst=conn.prepareStatement(Sql);

        pst.setString(1,this.tfName.getText());
        pst.setString(2,this.tfAge.getText());
        pst.setString(3,this.tfSex.getText());
        pst.setString(4,this.tfAddress.getText());
        pst.setString(5,this.tfMob.getText());

```

```

pst.setString(6,this.tfEmail.getText());
pst.setString(7,this.tfMed.getText());
pst.setString(8,this.tfTeeth.getText());
pst.setString(9,this.tfID.getText());
// every field in the particular database will be updated with new data
int i = pst.executeUpdate();
if(i>0){
//if all conditions are matched the new data will be stored
JOptionPane.showMessageDialog(null, "Patient Data Updated!");
this.dispose();
new FindPatient().setVisible(true);
}
else{// an error message will be displayed if there is an issue wiht the new data
JOptionPane.showMessageDialog(null,"Error! Data not Saved");
}
}
catch(HeadlessException | SQLException e){
JOptionPane.showMessageDialog(null, e);
}
}

```

```

private void tPatientMouseClicked(java.awt.event.MouseEvent evt) {
DefaultTableModel model = (DefaultTableModel)tPatient.getModel();
int i = tPatient.getSelectedRow();//retrieving data
this.tfID.setText(model.getValueAt(i, 0).toString());
this.tfName.setText(model.getValueAt(i, 1).toString());
this.tfAge.setText(model.getValueAt(i, 2).toString());
this.tfSex.setText(model.getValueAt(i, 3).toString());
this.tfAddress.setText(model.getValueAt(i, 4).toString());
this.tfMob.setText(model.getValueAt(i, 5).toString());
this.tfEmail.setText(model.getValueAt(i, 6).toString());
this.tfMed.setText(model.getValueAt(i, 7).toString());
this.tfTeeth.setText(model.getValueAt(i, 8).toString());// all data will be displayed in
text boxes
}

```

```

private void bMenuActionPerformed(java.awt.event.ActionEvent evt) {
if (login.glv==1) //condition of global variable for appropriate dashboard
{
this.dispose();
new AdminDashboard().setVisible(true);
}
else
{
this.dispose();
new EmployeeDashboard().setVisible(true);
}
}

```

```

}

private void bNameSearchActionPerformed(java.awt.event.ActionEvent evt) {
    String sql ="select * from patients where name=?";
    try{// retrieval of data from the database
        pst = conn.prepareStatement(sql);// connectivity to database
        pst.setString(1,this.tfNameSearch.getText());// reading of data
        rs=pst.executeQuery();
        this.tPatient.setModel(DbUtils.resultSetToTableModel(rs));

    } catch (SQLException ex) {
        Logger.getLogger(FindStaff.class.getName()).log(Level.SEVERE, null, ex);
    }
}

private void bRefreshActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new FindPatient().setVisible(true); //refreshing and reopening the same form
}

private void bPrintActionPerformed(java.awt.event.ActionEvent evt) {
    MessageFormat header = new MessageFormat("Data Summary"); // retrieving all data
    MessageFormat footer = new MessageFormat(".");
    try{
        tPatient.print(JTable.PrintMode.NORMAL, header, footer);
        // printing the entire database table
    }
    catch (java.awt.print.PrinterException e){
        System.err.format("Cannot Print Bill", e.getMessage());
        // error message if unable to print
    }
}

private void bIDSearchActionPerformed(java.awt.event.ActionEvent evt) {
    String sql ="select * from patients where id=?";
    try{ //obtaining data from the patient database based on id
        pst = conn.prepareStatement(sql);
        pst.setString(1,this.tfIDSearch.getText());
        rs=pst.executeQuery();
        this.tPatient.setModel(DbUtils.resultSetToTableModel(rs));

    } catch (SQLException ex) {
        Logger.getLogger(FindStaff.class.getName()).log(Level.SEVERE, null, ex);
    }
}

```

```

    }
}
private void bIDSearch1ActionPerformed(java.awt.event.ActionEvent evt) {
    String sql ="select * from patients where id=?";
    try{ //obtaining data from the patient database based on id
        pst = conn.prepareStatement(sql);
        pst.setString(1,this.tfIDSearch.getText());
        rs=pst.executeQuery();
        this.tPatient.setModel(DbUtils.resultSetToTableModel(rs));

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

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

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

```

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

```
    }
```

```
});
```

```
}
```

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

```
private javax.swing.JButton bDelete;
```

```
private javax.swing.JButton bIDSearch;
```

```
private javax.swing.JButton bIDSearch1;
```

```
private javax.swing.JButton bMenu;
```

```
private javax.swing.JButton bNameSearch;
```

```
private javax.swing.JButton bPrint;
```

```
private javax.swing.JButton bRefresh;
```

```
private javax.swing.JButton bSave;
```

```
private javax.swing.JLabel jLabel1;
```

```
private javax.swing.JLabel jLabel10;
```

```
private javax.swing.JLabel jLabel11;
```

```
private javax.swing.JLabel jLabel12;
```

```
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.JScrollPane jScrollPane1;
```

```
private javax.swing.JTable tPatient;
```

```
private javax.swing.JTextField tfAddress;
```

```
private javax.swing.JTextField tfAge;
```

```
private javax.swing.JTextField tfEmail;
```

```
private javax.swing.JTextField tfID;
```

```
private javax.swing.JTextField tfIDSearch;
```

```
private javax.swing.JTextField tfIDSearch1;
```

```
private javax.swing.JTextField tfMed;
```

```
private javax.swing.JTextField tfMob;
```

```
private javax.swing.JTextField tfName;
```

```
private javax.swing.JTextField tfNameSearch;
```



```
private javax.swing.JTextField tfSex;  
private javax.swing.JTextField tfTeeth;  
// End of variables declaration  
}
```

Class 6: FindStaff

```
package IADentalClinic;

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.text.MessageFormat; // importing messageformat to allow print function
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.JTable;
import javax.swing.table.DefaultTableModel;
import net.proteanit.sql.DbUtils;

/**
 *
 * @author aryanghosh
 */
public class FindStaff extends javax.swing.JFrame {
    Connection conn=null;
    PreparedStatement pst=null;
    ResultSet rs=null;
    /** database connection
     * Creates new form FindStaff
     */
    public FindStaff() {
        initComponents();
        conn=MySQLConnect.ConnectDB();//database connection
        displayItem();// performs displayitem
    }

    public void displayItem()
    { //performs displayitem when form is opened
        String sql ="select * from newstaff";
        try { //inserting data from staff database
            pst = conn.prepareStatement(sql);
            rs=pst.executeQuery();
            tStaff.setModel(DbUtils.resultSetToTableModel(rs));
        } //inserting data in the table 'tStaff'
        catch (SQLException ex) {
            Logger.getLogger(NewStaff.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
}
```

```

public void displayAllItem(String id)
{//performs displayallitem
    try{
        String sql ="select * from newstaff where id=?";//selects with relation to ID
        pst=conn.prepareStatement(sql);
        pst.setString(1, id);
        rs=pst.executeQuery();
        tStaff.setModel(DbUtils.resultSetToTableModel(rs));
    } catch (SQLException ex) {
        Logger.getLogger(NewStaff.class.getName()).log(Level.SEVERE, null, ex);
    }
}

public void displayAllItemName(String name)
{//performs displayallitemname
    try{
        String sql ="select * from newstaff where name=?";
        pst=conn.prepareStatement(sql);//selects with relation to name
        pst.setString(1, name);
        rs=pst.executeQuery();
        tStaff.setModel(DbUtils.resultSetToTableModel(rs));
    } catch (SQLException ex) {
        Logger.getLogger(NewStaff.class.getName()).log(Level.SEVERE, null, ex);
    }
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    tStaff = new javax.swing.JTable();
    jLabel2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    tfName = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    tfAge = new javax.swing.JTextField();
    jLabel5 = new javax.swing.JLabel();
    tfSex = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    tfAddress = new javax.swing.JTextField();
    jLabel7 = new javax.swing.JLabel();
    tfMob = new javax.swing.JTextField();

```

```

jLabel8 = new javax.swing.JLabel();
tfEmail = new javax.swing.JTextField();
jLabel9 = new javax.swing.JLabel();
jLabel10 = new javax.swing.JLabel();
tfPos = new javax.swing.JTextField();
tfSalary = new javax.swing.JTextField();
jLabel11 = new javax.swing.JLabel();
jSeparator1 = new javax.swing.JSeparator();
jLabel12 = new javax.swing.JLabel();
tfEname = new javax.swing.JTextField();
jLabel13 = new javax.swing.JLabel();
tfEaddress = new javax.swing.JTextField();
jLabel14 = new javax.swing.JLabel();
tfEmob = new javax.swing.JTextField();
tfEmail = new javax.swing.JTextField();
jLabel15 = new javax.swing.JLabel();
jLabel16 = new javax.swing.JLabel();
tfRelation = new javax.swing.JTextField();
bDelete = new javax.swing.JButton();
bSave = new javax.swing.JButton();
bMenu = new javax.swing.JButton();
jLabel17 = new javax.swing.JLabel();
jLabel18 = new javax.swing.JLabel();
tfID = new javax.swing.JTextField();
tfIDSearch = new javax.swing.JTextField();
bIDSearch = new javax.swing.JButton();
tfNameSearch = new javax.swing.JTextField();
bRefresh = new javax.swing.JButton();
bNameSearch = new javax.swing.JButton();
bPrint = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 18)); // NOI18N
jLabel1.setText("Find Staff");

tStaff.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"
    }
)

```

```
{
    public boolean isCellEditable(int row, int column){
        return false;
    }
}
);
tStaff.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        tStaffMouseClicked(evt);
    }
});
jScrollPane1.setViewportViewView(tStaff);

jLabel2.setText("Full Name");

jLabel3.setText("ID ");

tfName.setText(" ");

jLabel4.setText("Age");

tfAge.setText(" ");

jLabel5.setText("Sex");

tfSex.setText(" ");

jLabel6.setText("Address ");

tfAddress.setText(" ");

jLabel7.setText("Mobile No");

tfMob.setText(" ");

jLabel8.setText("Email ID");

tfEmail.setText(" ");

jLabel9.setText("Postition ");

jLabel10.setText("Salary");

tfPos.setText(" ");

tfSalary.setText(" ");
```

```
jLabel11.setFont(new java.awt.Font("Lucida Grande", 3, 13)); // NOI18N
jLabel11.setText("Emergency Contact");

jLabel12.setText("Full Name");

tfEname.setText(" ");

jLabel13.setText("Address ");

tfEaddress.setText(" ");

jLabel14.setText("Mobile No");

tfEmob.setText(" ");

tfEmail.setText(" ");

jLabel15.setText("Email ID");

jLabel16.setText("Relation");

tfRelation.setText(" ");

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

bSave.setText("Save Changes");
bSave.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bSaveActionPerformed(evt);
    }
});

bMenu.setText("Menu");
bMenu.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bMenuActionPerformed(evt);
    }
});

jLabel17.setText("Name");

jLabel18.setText("ID");
```

```

tfID.setText(" ");

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

bIDSearch.setText("Search");
bIDSearch.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bIDSearchActionPerformed(evt);
    }
});

bRefresh.setText("Refresh");
bRefresh.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bRefreshActionPerformed(evt);
    }
});

bNameSearch.setText("Search Name");
bNameSearch.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bNameSearchActionPerformed(evt);
    }
});

bPrint.setText("Print");
bPrint.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bPrintActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1)
        .addGroup(layout.createSequentialGroup()
            .addComponent(bDelete, javax.swing.GroupLayout.PREFERRED_SIZE, 129,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
                javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

```

```

        .addComponent(bSave))
    .addGroup(layout.createSequentialGroup())
    .addGap(18, 18, 18)
    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jScrollPane1)
        .addGroup(layout.createSequentialGroup())

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel12)
        .addComponent(tfEname, javax.swing.GroupLayout.PREFERRED_SIZE, 115,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfEaddress, javax.swing.GroupLayout.PREFERRED_SIZE, 268,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel13))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

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

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(tfRelation, javax.swing.GroupLayout.PREFERRED_SIZE,
115, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfEmob, javax.swing.GroupLayout.PREFERRED_SIZE, 268,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel14))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addComponent(jLabel15)
        .addGap(212, 212, 212))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addComponent(tfEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
262, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap()))
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel16)
        .addGap(0, 0, Short.MAX_VALUE)))
    .addGroup(layout.createSequentialGroup())

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

```



```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel6)
    .addComponent(tfAddress, javax.swing.GroupLayout.PREFERRED_SIZE,
268, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(39, 39, 39)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(tfMob, javax.swing.GroupLayout.PREFERRED_SIZE, 268,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel7))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
55, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(tfEmail, javax.swing.GroupLayout.PREFERRED_SIZE, 268,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel8)))
    .addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup())
        .addComponent(bIDSearch)
        .addGap(32, 32, 32)
        .addComponent(bNameSearch))
    .addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel18)
    .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE, 45,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(28, 28, 28)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE,
115, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(jLabel2))
    .addGap(53, 53, 53)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(jLabel4)
    .addComponent(tfAge, javax.swing.GroupLayout.PREFERRED_SIZE,
55, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(39, 39, 39)

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

```

```

        .addComponent(tfSex, javax.swing.GroupLayout.PREFERRED_SIZE, 55,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel5))
        .addGap(36, 36, 36)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(tfPos, javax.swing.GroupLayout.PREFERRED_SIZE,
115, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel9))
        .addGap(34, 34, 34)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(tfSalary, javax.swing.GroupLayout.PREFERRED_SIZE,
115, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel10)))
        .addComponent(jLabel11))
        .addGap(0, 0, Short.MAX_VALUE)))
        .addContainerGap()))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(jLabel3)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfIDSearch, javax.swing.GroupLayout.PREFERRED_SIZE, 59,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(jLabel17)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfNameSearch, javax.swing.GroupLayout.PREFERRED_SIZE, 75,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(193, 193, 193)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 98,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING,
false)
            .addComponent(bMenu, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(bRefresh, javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
            .addComponent(bPrint, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))
        .addGap(23, 23, 23))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```

```

        .addGroup(layout.createSequentialGroup())
        .addContainerGap()

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel1)
        .addComponent(jLabel3)
        .addComponent(bMenu)
        .addComponent(jLabel17)
        .addComponent(tfIDSearch, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfNameSearch, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bIDSearch)
        .addComponent(bRefresh)
        .addComponent(bNameSearch))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(bPrint)
        .addGap(4, 4, 4)
        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 275,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(32, 32, 32)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel9)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .addComponent(tfPos, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel2)
        .addComponent(jLabel4)
        .addComponent(jLabel5)
        .addComponent(jLabel18))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfAge, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(tfSex, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))))
        .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel10)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfSalary, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel6)
        .addComponent(jLabel7)
        .addComponent(jLabel8))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfAddress, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfMob, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jLabel11)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel12)
        .addComponent(jLabel16))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfEname, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfRelation, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel13)
        .addComponent(jLabel14)
        .addComponent(jLabel15))

```

```

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(tfEaddress, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(tfEmob, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(tfEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(bDelete)
    .addComponent(bSave)))
);

setSize(new java.awt.Dimension(922, 781));
setLocationRelativeTo(null);
} // </editor-fold>

```

```

private void bDeleteActionPerformed(java.awt.event.ActionEvent evt) {
    String Sql="delete from newstaff where id=?";
    try{ //the data is obtained and then deleted from the database
        pst=conn.prepareStatement(Sql);
        pst.setInt(1,Integer.parseInt(this.tfID.getText()));
        int i = pst.executeUpdate();
        if(i>0){
            JOptionPane.showMessageDialog(null, "Staff Successfully Deleted");
            this.dispose();
            new FindStaff().setVisible(true);
        }
        else{
            JOptionPane.showMessageDialog(null,"Staff Data not Deleted!");
        }
        //The 'try-catch' phrases examine errors while connecting to database.
    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(null, e);
    }
}

```

```

private void tStaffMouseClicked(java.awt.event.MouseEvent evt) {
    DefaultTableModel model = (DefaultTableModel)tStaff.getModel();
    int i = tStaff.getSelectedRow(); //retrieving data
    this.tfID.setText(model.getValueAt(i, 0).toString());
    this.tfName.setText(model.getValueAt(i, 1).toString());
    this.tfAge.setText(model.getValueAt(i, 2).toString());
}

```

```

this.tfSex.setText(model.getValueAt(i, 3).toString());
this.tfAddress.setText(model.getValueAt(i, 4).toString());
this.tfMob.setText(model.getValueAt(i, 5).toString());
this.tfEmail.setText(model.getValueAt(i, 6).toString());
this.tfPos.setText(model.getValueAt(i, 7).toString());
this.tfSalary.setText(model.getValueAt(i, 8).toString());
this.tfEname.setText(model.getValueAt(i, 9).toString());
this.tfEaddress.setText(model.getValueAt(i, 10).toString());
this.tfEmob.setText(model.getValueAt(i, 11).toString());
this.tfEemail.setText(model.getValueAt(i, 12).toString());
this.tfRelation.setText(model.getValueAt(i, 13).toString()); // all data will be displayed in
text boxes
}

```

```

private void bSaveActionPerformed(java.awt.event.ActionEvent evt) {
    String Sql="update newstaff set name=?, age=?, sex=?, address=?, mobno=?, email=?,
position=?, salary=?, efullname=?, eaddress=?, emobno=?, eemailid=?, relation=? where
id=?";
    try{ // the data is stored in temporary variables and then updates the database

```

```

        pst=conn.prepareStatement(Sql);

        pst.setString(1,this.tfName.getText());
        pst.setString(2,this.tfAge.getText());
        pst.setString(3,this.tfSex.getText());
        pst.setString(4,this.tfAddress.getText());
        pst.setString(5,this.tfMob.getText());
        pst.setString(6,this.tfEmail.getText());
        pst.setString(7,this.tfPos.getText());
        pst.setString(8,this.tfSalary.getText());
        pst.setString(9,this.tfEname.getText());
        pst.setString(10,this.tfEaddress.getText());
        pst.setString(11,this.tfEmob.getText());
        pst.setString(12,this.tfEemail.getText());
        pst.setString(13,this.tfRelation.getText());
        pst.setString(14,this.tfID.getText());

```

```

        int i = pst.executeUpdate();
        if(i>0){

            JOptionPane.showMessageDialog(null, "Staff Data Updated!");
            this.dispose();
            new FindStaff().setVisible(true);
        }
        else{
            JOptionPane.showMessageDialog(null,"Error! Data not Saved");

```

```

    }
}
catch(HeadlessException | SQLException e){
    JOptionPane.showMessageDialog(null, e);
}
}

private void bMenuActionPerformed(java.awt.event.ActionEvent evt) {
    if (login.glv==1) //The if statement checks the "glv" value
    {
        this.dispose();
        new AdminDashboard().setVisible(true);
    }
    else
    {
        this.dispose();
        new EmployeeDashboard().setVisible(true);
    }
}

private void bIDSearchActionPerformed(java.awt.event.ActionEvent evt) {
    String sql ="select * from newstaff where id=?";
    try{ // retrieval of data from the database
        pst = conn.prepareStatement(sql); // connectivity to database
        pst.setString(1,this.tfIDSearch.getText()); // reading of data
        rs=pst.executeQuery();
        this.tStaff.setModel(DbUtils.resultSetToTableModel(rs));

    } catch (SQLException ex) {
        Logger.getLogger(FindStaff.class.getName()).log(Level.SEVERE, null, ex);
    }
}

private void bRefreshActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new FindStaff().setVisible(true); //refrshing and reopening the same form
}

private void bNameSearchActionPerformed(java.awt.event.ActionEvent evt) {
    String sql ="select * from newstaff where name=?";
    try{ // retrieval of data from the database
        pst = conn.prepareStatement(sql);
        pst.setString(1,this.tfNameSearch.getText()); // reading of data
        rs=pst.executeQuery();
        this.tStaff.setModel(DbUtils.resultSetToTableModel(rs));
    }
}

```

```

    } catch (SQLException ex) {
        Logger.getLogger(FindStaff.class.getName()).log(Level.SEVERE, null, ex);
    }
}

private void bPrintActionPerformed(java.awt.event.ActionEvent evt) {
    MessageFormat header = new MessageFormat("Data Summary");// retrieving all data
    MessageFormat footer = new MessageFormat(".");
    try{

        tStaff.print(JTable.PrintMode.NORMAL, header, footer);
        // printing the entire database table
    }
    catch (java.awt.print.PrinterException e){
        System.err.format("Cannot Print Bill", e.getMessage());// error message if unable to
        print

    }
}

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

```



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

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

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

```
// Variables declaration - do not modify
private javax.swing.JButton bDelete;
private javax.swing.JButton bIDSearch;
private javax.swing.JButton bMenu;
private javax.swing.JButton bNameSearch;
private javax.swing.JButton bPrint;
private javax.swing.JButton bRefresh;
private javax.swing.JButton bSave;
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 jLabel15;
private javax.swing.JLabel jLabel16;
private javax.swing.JLabel jLabel17;
private javax.swing.JLabel jLabel18;
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.JScrollPane jScrollPane1;  
private javax.swing.JSeparator jSeparator1;  
private javax.swing.JTable tStaff;  
private javax.swing.JTextField tfAddress;  
private javax.swing.JTextField tfAge;  
private javax.swing.JTextField tfEaddress;  
private javax.swing.JTextField tfEmail;  
private javax.swing.JTextField tfEmail;  
private javax.swing.JTextField tfEmob;  
private javax.swing.JTextField tfEname;  
private javax.swing.JTextField tfID;  
private javax.swing.JTextField tfIDSearch;  
private javax.swing.JTextField tfMob;  
private javax.swing.JTextField tfName;  
private javax.swing.JTextField tfNameSearch;  
private javax.swing.JTextField tfPos;  
private javax.swing.JTextField tfRelation;  
private javax.swing.JTextField tfSalary;  
private javax.swing.JTextField tfSex;  
// End of variables declaration  
  
}
```

Class 7: NewPatient

```
package IADentalClinic;

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;

/**
 *
 * @author aryanghosh
 */
public class NewPatient extends javax.swing.JFrame {
    String Sex=" ";
    Connection conn=null;
    PreparedStatement pst=null;
    int rst;
    public NewPatient() {
        initComponents();
        conn=MySQLConnect.ConnectDB();
        getID();//performs get ID
    }
    public void getID()
    {
        // performs get ID
        int tempid=0;
        try{
            String sql2 ="select * from patients";// inserting from database
            pst=conn.prepareStatement(sql2);
            ResultSet rs=pst.executeQuery();
            while(rs.next())
            {
                tempid = rs.getInt(1);//setting getID as 1
            }
            this.tfID.setText(Integer.toString(tempid+1));//incrementing getID by 1
        } catch (SQLException ex) {
            JOptionPane.showMessageDialog(null, ex);
        }
    }

    /**
     * This method is called from Xwithin 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() {

    buttonGroup1 = new javax.swing.ButtonGroup();
    jCheckBoxMenuItem1 = new javax.swing.JCheckBoxMenuItem();
    jLabel5 = new javax.swing.JLabel();
    jLabel9 = new javax.swing.JLabel();
    tfAddress = new javax.swing.JTextField();
    tfID = new javax.swing.JTextField();
    jLabel6 = new javax.swing.JLabel();
    tfMob = new javax.swing.JTextField();
    tfemail = new javax.swing.JTextField();
    jSeparator1 = new javax.swing.JSeparator();
    jLabel7 = new javax.swing.JLabel();
    tfMedHis = new javax.swing.JTextField();
    jLabel8 = new javax.swing.JLabel();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    tfName = new javax.swing.JTextField();
    jLabel3 = new javax.swing.JLabel();
    tfAge = new javax.swing.JTextField();
    jLabel4 = new javax.swing.JLabel();
    rbMale = new javax.swing.JRadioButton();
    rbFemale = new javax.swing.JRadioButton();
    tfTandG = new javax.swing.JTextField();
    rbOther = new javax.swing.JRadioButton();
    bSave = new javax.swing.JButton();
    bMenu = new javax.swing.JButton();

    jCheckBoxMenuItem1.setSelected(true);
    jCheckBoxMenuItem1.setText("jCheckBoxMenuItem1");

    setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

    jLabel5.setText("Address:");

    jLabel9.setText("ID:");

    tfAddress.setText(" ");

    tfID.setEditable(false);
    tfID.setText(" ");

    jLabel6.setText("Mob No/Email ID:");

    tfMob.setText(" ");

```

```

tfemail.setText(" ");
tfemail.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tfemailActionPerformed(evt);
    }
});

jLabel7.setText("Medical History:");

tfMedHis.setText(" ");

jLabel8.setText("Teeth and Gum Appearance:");

jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 18)); // NOI18N
jLabel1.setText("New Patient ");

jLabel2.setText("Full Name:");

jLabel3.setText("Age:");

tfAge.setText(" ");

jLabel4.setText("Sex:");

buttonGroup1.add(rbMale);
rbMale.setText("Male");
rbMale.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        rbMaleActionPerformed(evt);
    }
});

buttonGroup1.add(rbFemale);
rbFemale.setText("Female");
rbFemale.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        rbFemaleActionPerformed(evt);
    }
});

tfTandG.setText(" ");

buttonGroup1.add(rbOther);
rbOther.setText("Other");
rbOther.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```

        rbOtherActionPerformed(evt);
    }
});

bSave.setText("Save");
bSave.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bSaveActionPerformed(evt);
    }
});

bMenu.setText("Menu");
bMenu.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bMenuActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1)
        .addGroup(layout.createSequentialGroup()
            .addComponent(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jLabel4)
                    .addGap(18, 18, 18)
                    .addComponent(rbMale)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(rbFemale)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(rbOther)
                    .addGap(0, 0, Short.MAX_VALUE))
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jLabel5)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(tfAddress))
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jLabel6)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
                    .addComponent(tfMob, javax.swing.GroupLayout.PREFERRED_SIZE, 107,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                    .addComponent(tfemail))
            )
        )
);

```

```

        .addGroup(layout.createSequentialGroup()
            .addComponent(jLabel7)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
            .addComponent(tfMedHis))
        .addGroup(layout.createSequentialGroup()

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(tfAge))
    .addComponent(jLabel2))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE, 129,
javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
68, Short.MAX_VALUE)
    .addComponent(jLabel9)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE, 82,
javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addContainerGap())
    .addGroup(layout.createSequentialGroup()
        .addGap(14, 14, 14)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addComponent(jLabel8)
        .addGap(0, 0, Short.MAX_VALUE))
    .addGroup(layout.createSequentialGroup()
        .addComponent(tfTandG)
        .addContainerGap()))
    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
    .addComponent(bMenu)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(bSave))
    .addGroup(layout.createSequentialGroup()
        .addGap(136, 136, 136)
        .addComponent(jLabel1)
        .addGap(0, 0, Short.MAX_VALUE))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()

```

```

        .addContainerGap()
        .addComponent(jLabel1)
        .addGap(1, 1, 1)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(7, 7, 7)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel2)
        .addComponent(tfName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel9)
        .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3)
        .addComponent(tfAge, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(19, 19, 19)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel4)
        .addComponent(rbMale)
        .addComponent(rbFemale)
        .addComponent(rbOther))
        .addGap(28, 28, 28)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel5)
        .addComponent(tfAddress, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel6)
        .addComponent(tfMob, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(tfemail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel7)
        .addComponent(tfMedHis, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

```



```

        .addGap(95, 95, 95)
        .addComponent(jLabel8)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(tfTandG, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bSave)
        .addComponent(bMenu)))
);

setSize(new java.awt.Dimension(400, 500));
setLocationRelativeTo(null);
} // </editor-fold>

```

```

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

}

```

```

private void bSaveActionPerformed(java.awt.event.ActionEvent evt) {
String Sql="insert into patients values (?,?,?,?,?,?,?,?)";
try{ //stores the input data into the patients database
    pst = conn.prepareStatement(Sql);
    pst.setString(1,this.tfID.getText());
    pst.setString(2,this.tfName.getText());
    pst.setString(3,this.tfAge.getText());
    pst.setString(4,Sex);
    pst.setString(5,this.tfAddress.getText());
    pst.setString(6,this.tfMob.getText());
    pst.setString(7,this.tfemail.getText());
    pst.setString(8,this.tfMedHis.getText());
    pst.setString(9,this.tfTandG.getText());

    int i = pst.executeUpdate();
    if(i>0){

        JOptionPane.showMessageDialog(null, "Patient Successfully Added");
        new EmployeeDashboard().setVisible(true);
        this.dispose();
    }
    else{
        JOptionPane.showMessageDialog(null,"Data is not saved");
    }
}
catch(HeadlessException | SQLException e){

```

```

        JOptionPane.showMessageDialog(null, e);
    }
}

private void rbMaleActionPerformed(java.awt.event.ActionEvent evt) {
    Sex = "Male"; //segregating data for radio button
}

private void rbFemaleActionPerformed(java.awt.event.ActionEvent evt) {
    Sex = "Female"; //segregating data for radio button
}

private void rbOtherActionPerformed(java.awt.event.ActionEvent evt) {
    Sex = "Other"; //segregating data for radio button
}

private void bMenuActionPerformed(java.awt.event.ActionEvent evt) {
    if (login.glv==1) //checking condition for dashboard view based on global variable
    {
        this.dispose();
        new AdminDashboard().setVisible(true);
    }
    else
    {
        this.dispose();
        new EmployeeDashboard().setVisible(true);
    }
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
    * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    }
}

```

```

    }
    } catch (ClassNotFoundException ex) {

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

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton bMenu;
private javax.swing.JButton bSave;
private javax.swing.ButtonGroup buttonGroup1;
private javax.swing.JCheckBoxMenuItem jCheckBoxMenuItem1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;

```

```
private javax.swing.JLabel jLabel7;  
private javax.swing.JLabel jLabel8;  
private javax.swing.JLabel jLabel9;  
private javax.swing.JSeparator jSeparator1;  
private javax.swing.JRadioButton rbFemale;  
private javax.swing.JRadioButton rbMale;  
private javax.swing.JRadioButton rbOther;  
private javax.swing.JTextField tfAddress;  
private javax.swing.JTextField tfAge;  
private javax.swing.JTextField tfID;  
private javax.swing.JTextField tfMedHis;  
private javax.swing.JTextField tfMob;  
private javax.swing.JTextField tfName;  
private javax.swing.JTextField tfTandG;  
private javax.swing.JTextField tfemail;  
// End of variables declaration  
}
```

Class 8: Patients

```
/*
 * 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 IADentalClinic;

/**
 *
 * @author aryanghosh
 */
public class Patients extends javax.swing.JFrame {

    /**
     * Creates new form Patients
     */
    public Patients() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        bNewP = new javax.swing.JButton();
        bSearchP = new javax.swing.JButton();
        bMenu = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 36)); // NOI18N
        jLabel1.setText("Patients ");

        bNewP.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
        bNewP.setText("New Patient");
        bNewP.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                bNewPActionPerformed(evt);
            }
        })
    }
}
```

$$\});$$

```
bSearchP.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
```

```
bSearchP.setText("Search Patient ");
```

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

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

```
bSearchPActionPerformed(evt);
```

}

 $\});$

```
bMenu.setText("Menu");
```

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

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

```
bMenuItemActionPerformed(evt);
```

}

 $\}) ;$

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

```
getContentPane().setLayout(layout);
```

```
layout.setHorizontalGroup(
```

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

```
.addComponent(jSeparator1, javax.swing.GroupLayout.Alignment.TRAILING)
```

```
.addGroup(layout.createSequentialGroup())
```

```
.addComponent(bMenu)
```

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

```
.addGroup(layout.createSequentialGroup())
```

```
.addGap(20, 20, 20)
```

```
.addComponent(bSearchP, javax.swing.GroupLayout.PREFERRED_SIZE, 198,
```

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

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

```
.addComponent(bNewP, javax.swing.GroupLayout.PREFERRED_SIZE, 198,
```

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

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

```
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
```

```
layout.createSequentialGroup()
```

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

```
.addComponent(jLabel1)
```

```
.addGap(133, 133, 133))
```

$$);$$

```
layout.setVerticalGroup(
```

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

```
.addGroup(layout.createSequentialGroup())
```

```
.addContainerGap()
```

```
addComponent(jLabel1)
```

```
.addGap(2, 2, 2)
```

```
.addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
```

javax.swing.GroupLayout.DEFAULT SIZE, javax.swing.GroupLayout.PREFERRED SIZE)

```

        .addGap(68, 68, 68)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bSearchP, javax.swing.GroupLayout.PREFERRED_SIZE, 65,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(bNewP, javax.swing.GroupLayout.PREFERRED_SIZE, 65,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 60,
Short.MAX_VALUE)
        .addComponent(bMenu))
    );

    setSize(new java.awt.Dimension(440, 313));
    setLocationRelativeTo(null);
} // </editor-fold>

private void bMenuActionPerformed(java.awt.event.ActionEvent evt) {
    if (login.glv==1) //condition for global variable
    {
        this.dispose();
        new AdminDashboard().setVisible(true);
    }
    else
    {
        this.dispose();
        new EmployeeDashboard().setVisible(true);
    }
}

private void bSearchPActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new FindPatient().setVisible(true); //opening new form/class
}

private void bNewPActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new NewPatient().setVisible(true); //opening new form/class
}

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton bMenu;
private javax.swing.JButton bNewP;
private javax.swing.JButton bSearchP;
private javax.swing.JLabel jLabel1;
private javax.swing.JSeparator jSeparator1;
// End of variables declaration
}

```


Class 9: SignUp

```
package IADentalClinic;

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.SQLException;
import javax.swing.JOptionPane;

public class SignUp extends javax.swing.JFrame {

    Connection conn=null;
    PreparedStatement pst=null;
    int rst; //declaring variables
    public SignUp() {
        initComponents();
        conn=MySQLConnect.ConnectDB(); //connecting software to database
    }

    /**
     * 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() {

        jSeparator1 = new javax.swing.JSeparator();
        tfUserID = new javax.swing.JTextField();
        tfPassword = new javax.swing.JPasswordField();
        tfVerifyPassword = new javax.swing.JPasswordField();
        cboUserType = new javax.swing.JComboBox<>();
        bSave = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        jLabel5 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        cboUserType.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "",
"Admin", "Employee" }));
```

```

bSave.setText("Save");
bSave.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bSaveActionPerformed(evt);
    }
});

jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 18)); // NOI18N
jLabel1.setText("Sign Up");

jLabel2.setText("User ID");

jLabel3.setText("Password");

jLabel4.setText("Verify Password");

jLabel5.setText("User Type");

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1, javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
            .addGroup(layout.createParallelGroup()
                .addGap(0, 0, Short.MAX_VALUE)
                .addComponent(bSave))
            .addGroup(layout.createSequentialGroup()
                .addGap(30, 30, 30)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .addComponent(jLabel4)
                        .addComponent(jLabel5))
                    .addGap(27, 27, 27)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
                .addComponent(cboUserType, javax.swing.GroupLayout.PREFERRED_SIZE,
99, javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(tfVerifyPassword)
                    .addGap(7, 7, 7)))
            .addGroup(layout.createSequentialGroup()
                .addGap(3, 3, 3)

```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel3)
    .addComponent(jLabel2))
.addGap(64, 64, 64)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(tfUserID, javax.swing.GroupLayout.DEFAULT_SIZE, 92,
Short.MAX_VALUE)
    .addComponent(tfPassword))))
.addContainerGap(16, Short.MAX_VALUE)
.addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
.addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
.addComponent(jLabel1)
.addGap(99, 99, 99)
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup())
        .addGap(16, 16, 16)
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfUserID, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel2))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfPassword, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel3))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(tfVerifyPassword, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

```

```

        .addComponent(cboUserType, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel5))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 40,
Short.MAX_VALUE)
        .addComponent(bSave))
    );

```

```

    setSize(new java.awt.Dimension(271, 328));
    setLocationRelativeTo(null);
} // </editor-fold>

```

```

private void bSaveActionPerformed(java.awt.event.ActionEvent evt) {
    String Sql="insert into users values (?, ?, ?)"; //storing values in users database table
    if(this.tfPassword.getText().equals(this.tfVerifyPassword.getText())) // verifies if
password entered is matching
    try{

        pst = conn.prepareStatement(Sql);
        pst.setString(1,this.tfUserID.getText());
        pst.setString(2,this.tfPassword.getText());
        pst.setString(3, (String) this.cboUserType.getSelectedItem());
        int i = pst.executeUpdate(); //the values will get verified and then get stored in the
database.
        if(i>0){
            JOptionPane.showMessageDialog(null, "User Successfully Added"); //A message will be
displayed
            new login().setVisible(true);
            this.dispose();
        }
        else{
            JOptionPane.showMessageDialog(null,"Error-Re-enter "); }
        }
        catch(HeadlessException | SQLException e){
            JOptionPane.showMessageDialog(null, e); }
        }
        else {
            JOptionPane.showMessageDialog(null,"Password do not match ");
        }

    }
}

```

```

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton bSave;
private javax.swing.JComboBox<String> cboUserType;
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.JSeparator jSeparator1;  
private javax.swing.JPasswordField tfPassword;  
private javax.swing.JTextField tfUserID;  
private javax.swing.JPasswordField tfVerifyPassword;  
// End of variables declaration  
}
```

Class 10: Staff

```
/*
 * 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 IADentalClinic;

/**
 *
 * @author aryanghosh
 */
public class Staff extends javax.swing.JFrame {

    /**
     * Creates new form Staff
     */
    public Staff() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jSplitPane1 = new javax.swing.JSplitPane();
        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        bViewS = new javax.swing.JButton();
        bNewS = new javax.swing.JButton();
        bMenu = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 36)); // NOI18N
        jLabel1.setText("Staff");

        bViewS.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
        bViewS.setText("View Staff");
        bViewS.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```

        bViewSActionPerformed(evt);
    }
});

bNewS.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
bNewS.setText("New Staff");
bNewS.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bNewSActionPerformed(evt);
    }
});

bMenu.setText("Menu");
bMenu.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bMenuActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1)
        .addGroup(layout.createSequentialGroup()
            .addGap(36, 36, 36)
            .addComponent(bViewS, javax.swing.GroupLayout.PREFERRED_SIZE, 190,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 48,
                Short.MAX_VALUE)
            .addComponent(bNewS, javax.swing.GroupLayout.PREFERRED_SIZE, 190,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(26, 26, 26)
            .addGroup(layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(bMenu)
                .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE))
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
                false)
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 103,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(192, 192, 192))
        );
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addComponent(jSeparator1)
            .addContainerGap()
            .addComponent(bViewS)
            .addContainerGap()
            .addComponent(bNewS)
            .addContainerGap()
            .addComponent(bMenu)
            .addContainerGap()
            .addComponent(jLabel1)
            .addContainerGap()
        );

```



```

        .addGap(10, 10, 10)
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(42, 42, 42)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bViewS, javax.swing.GroupLayout.PREFERRED_SIZE, 57,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(bNewS, javax.swing.GroupLayout.PREFERRED_SIZE, 57,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 62,
Short.MAX_VALUE)
        .addComponent(bMenu))
    );

    setSize(new java.awt.Dimension(490, 293));
    setLocationRelativeTo(null);
} // </editor-fold>

```

```

private void bMenuActionPerformed(java.awt.event.ActionEvent evt) {
    if (login.glv==1) //condition for global variable user type
    {
        this.dispose();
        new AdminDashboard().setVisible(true);
    }
    else
    {
        this.dispose();
        new EmployeeDashboard().setVisible(true);
    }
}

```

```

private void bNewSActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new NewStaff().setVisible(true); //open new form after clicking button
}

```

```

private void bViewSActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new FindStaff().setVisible(true); //open new form after clicking button
}

```

```

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton bMenu;
private javax.swing.JButton bNewS;
private javax.swing.JButton bViewS;

```

```
private javax.swing.JLabel jLabel1;  
private javax.swing.JSeparator jSeparator1;  
private javax.swing.JSplitPane jSplitPane1;  
// End of variables declaration  
}
```

Class 11: Login

```
/*
 * 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 IADentalClinic;

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;

/**
 *
 * @author aryanghosh
 */
public class login extends javax.swing.JFrame {
    public static int glv=0; //declaring global variable as 0
    Connection connd=null;
    PreparedStatement pstd=null;
    ResultSet rsd=null;
    String post= " ";
    private Object MySqlConnection;

    public login() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        tfUserID = new javax.swing.JTextField();
        bLogin = new javax.swing.JButton();
    }
}
```

```
jSeparator1 = new javax.swing.JSeparator();
tfPass = new javax.swing.JPasswordField();
cboUserType = new javax.swing.JComboBox<>();
jLabel4 = new javax.swing.JLabel();
bSignUp = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 18)); // NOI18N
jLabel1.setText("User login");

jLabel2.setText("User ID");

jLabel3.setText("Password");

bLogin.setText("Login");
bLogin.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bLoginActionPerformed(evt);
    }
});

cboUserType.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "",
"Admin", "Employee" }));

jLabel4.setText("User Type");

bSignUp.setText("Sign Up");
bSignUp.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bSignUpActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .add(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 408, Short.MAX_VALUE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
            .add(bLogin)
            .add(bSignUp)
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .add(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 108, Short.MAX_VALUE)
            .add(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 108, Short.MAX_VALUE)
            .add(jLabel3, javax.swing.GroupLayout.PREFERRED_SIZE, 108, Short.MAX_VALUE)
            .add(jLabel4, javax.swing.GroupLayout.PREFERRED_SIZE, 108, Short.MAX_VALUE)
            .addContainerGap())
        .addGroup(layout.createSequentialGroup()
            .add(cboUserType, javax.swing.GroupLayout.PREFERRED_SIZE, 108, Short.MAX_VALUE)
            .addContainerGap())
);
```

```

        .addComponent(jLabel2)
        .addComponent(jLabel3)
        .addComponent(jLabel4))
        .addGap(45, 45, 45)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(cboUserType, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
        .addComponent(tfUserID, javax.swing.GroupLayout.DEFAULT_SIZE, 84,
Short.MAX_VALUE)
        .addComponent(tfPass))))
        .addContainerGap()
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addGap(0, 0, Short.MAX_VALUE)
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 110,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(144, 144, 144))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
        .addComponent(bSignUp)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
        .addComponent(bLogin))
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addContainerGap()
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 40,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel2)
        .addComponent(tfUserID, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGap(18, 18, 18)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(jLabel3)

```

```

        .addComponent(tfPass, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(cboUserType, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(jLabel4))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 11,
Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bLogin)
        .addComponent(bSignUp)))
    );

setSize(new java.awt.Dimension(414, 259));
setLocationRelativeTo(null);
} // </editor-fold>

```

```

private void bLoginActionPerformed(java.awt.event.ActionEvent evt) {
    connd=MySQLConnect.ConnectDB();
    int flag=0;
    String Sql="select * from users where username=? and password=? and usertype=?";
    try{// checks the values, stores it in a variable temporarily

        pstd=connd.prepareStatement(Sql);
        pstd.setString(1,tfUserID.getText());
        pstd.setString(2,tfPass.getText());
        pstd.setString(3, (String) this.cboUserType.getSelectedItem());
        rsd = pstd.executeQuery();
        while(rsd.next()){
            if(this.cboUserType.getSelectedItem().equals("Admin")) {
                flag=1;// Checking the user type using an if-else statement.
                JOptionPane.showMessageDialog(null,"Successfully logged in as Admin!");
                this.dispose();
                new AdminDashboard().setVisible(true);
            }
            else{
                flag=2;// the input given is compared with the database
                JOptionPane.showMessageDialog(null,"Successfully logged in as Employee!");
                this.dispose();
                new EmployeeDashboard().setVisible(true);
            }
        }
    }
}

```

```

        if(flag==0)
        {
            JOptionPane.showMessageDialog(null,"User Name or Password Incorrect!");
            this.dispose();// if there is an error while logging in, a message will be displayed
            new login().setVisible(true);
        }

    }catch(HeadlessException | SQLException e){
        JOptionPane.showMessageDialog(null, e);
    }
}

private void bSignUpActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new SignUp().setVisible(true); //opens the signup form
}

/**
 * @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
private javax.swing.JButton bLogin;
private javax.swing.JButton bSignUp;
private javax.swing.JComboBox<String> cboUserType;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JSeparator jSeparator1;
private javax.swing.JPasswordField tfPass;
private javax.swing.JTextField tfUserID;
// End of variables declaration
}
```

Class 12: AdminDashboard

```
/*
 * 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 IADentalClinic;

/**
 *
 * @author aryanghosh
 */
public class AdminDashboard extends javax.swing.JFrame {

    /**
     * Creates new form AdminDashboard
     */
    public AdminDashboard() {
        initComponents();
        login.glv=1;// glv=1 is for admins
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        bBills = new javax.swing.JButton();
        bEditAdd = new javax.swing.JButton();
        bSchedule = new javax.swing.JButton();
        bLogout = new javax.swing.JButton();
        jSeparator1 = new javax.swing.JSeparator();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Tahoma", 3, 36)); // NOI18N
        jLabel1.setText("Admin Dashboard ");

        bBills.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
        bBills.setText("Bills");
        bBills.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```
        bBillsActionPerformed(evt);
    }
});
```

```

        .addComponent(bBills, javax.swing.GroupLayout.PREFERRED_SIZE, 148,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(18, 18, 18)
        .addComponent(bSchedule, javax.swing.GroupLayout.PREFERRED_SIZE,
148, javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup()
        .addGap(102, 102, 102)
        .addComponent(jLabel1)))
        .addGap(0, 0, Short.MAX_VALUE)))
        .addContainerGap()
    );
    layout.setVerticalGroup(
        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
        .addGap(18, 18, 18)
        .addComponent(jLabel1)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(77, 77, 77)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bEditAdd, javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(bBills, javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(bSchedule, javax.swing.GroupLayout.PREFERRED_SIZE, 60,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 56,
Short.MAX_VALUE)
        .addComponent(bLogout))
    );

    setSize(new java.awt.Dimension(519, 330));
    setLocationRelativeTo(null);
} // </editor-fold>

private void bEditAddActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new AdminEdit().setVisible(true);
}

private void bBillsActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new Bills().setVisible(true);
}

```

```

private void bScheduleActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new Appointments().setVisible(true);
}

private void bLogoutActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new login().setVisible(true);
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
    * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

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

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

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

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

```

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

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

```
// Variables declaration - do not modify  
private javax.swing.JButton bBills;  
private javax.swing.JButton bEditAdd;  
private javax.swing.JButton bLogout;  
private javax.swing.JButton bSchedule;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JSeparator jSeparator1;  
// End of variables declaration  
}
```

Class 13: AdminEdit

```
package IADentalClinic;
public class AdminEdit extends javax.swing.JFrame {

    /**
     * Creates new form AdminEdit
     */
    public AdminEdit() {
        initComponents();
    }

    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jSeparator1 = new javax.swing.JSeparator();
        bStaff = new javax.swing.JButton();
        bPatient = new javax.swing.JButton();
        bMenu = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);

        jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 36)); // NOI18N
        jLabel1.setText("Edit/Add");

        bStaff.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
        bStaff.setText("Staff");
        bStaff.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                bStaffActionPerformed(evt);
            }
        });

        bPatient.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
        bPatient.setText("Patient ");
        bPatient.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                bPatientActionPerformed(evt);
            }
        });
    }
}
```

```
bMenu.setText("Menu ");
bMenu.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bMenuActionPerformed(evt);
    }
});

jButton1.setFont(new java.awt.Font("Lucida Grande", 0, 24)); // NOI18N
jButton1.setText("Add User");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jSeparator1, javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(layout.createSequentialGroup()
            .addGap(25, 25, 25)
            .addComponent(bStaff, javax.swing.GroupLayout.PREFERRED_SIZE, 151,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 72,
                Short.MAX_VALUE)
            .addComponent(bPatient, javax.swing.GroupLayout.PREFERRED_SIZE, 151,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(32, 32, 32))
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
            layout.createSequentialGroup()
                .addContainerGap()
                .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 185,
                    javax.swing.GroupLayout.PREFERRED_SIZE)
                .addGap(118, 118, 118))
        .addGroup(layout.createSequentialGroup()
            .addGap(135, 135, 135)
            .addComponent(jButton1))
        .addGap(118, 118, 118));
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(25, 25, 25)
            .addComponent(bStaff, javax.swing.GroupLayout.PREFERRED_SIZE, 151,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 72,
                Short.MAX_VALUE)
            .addComponent(bPatient, javax.swing.GroupLayout.PREFERRED_SIZE, 151,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(32, 32, 32)
            .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 185,
                javax.swing.GroupLayout.PREFERRED_SIZE)
            .addGap(118, 118, 118)
            .addComponent(jButton1, javax.swing.GroupLayout.DEFAULT_SIZE, 60,
                Short.MAX_VALUE)
            .addGap(25, 25, 25));
```



```

        .addGroup(layout.createSequentialGroup())
        .addGap(18, 18, 18)
        .addComponent(jLabel1)
        .addGap(18, 18, 18)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(38, 38, 38)
        .addComponent(jButton1, javax.swing.GroupLayout.PREFERRED_SIZE, 55,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(39, 39, 39)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
        .addComponent(bStaff, javax.swing.GroupLayout.PREFERRED_SIZE, 55,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addComponent(bPatient, javax.swing.GroupLayout.PREFERRED_SIZE, 55,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 58,
Short.MAX_VALUE)
        .addComponent(bMenu))
    );

```

```

        setSize(new java.awt.Dimension(431, 393));
        setLocationRelativeTo(null);
    } // </editor-fold>

```

```

private void bStaffActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new NewStaff().setVisible(true);
}

```

```

private void bPatientActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new Patients().setVisible(true);
}

```

```

private void bMenuActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new AdminDashboard().setVisible(true);
}

```

```

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    this.dispose();
    new SignUp().setVisible(true);
}

```

```

/**
 * @param args the command line arguments

```

```

*/
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and
feel.
        * For details see
http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {

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

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

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

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

// Variables declaration - do not modify
private javax.swing.JButton bMenu;
private javax.swing.JButton bPatient;

```

```
private javax.swing.JButton bStaff;  
private javax.swing.JButton jButton1;  
private javax.swing.JLabel jLabel1;  
private javax.swing.JSeparator jSeparator1;  
// End of variables declaration  
}
```

Class 14: NewStaff

```
package IADentalClinic;

import java.awt.HeadlessException;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import javax.swing.JOptionPane;

public class NewStaff extends javax.swing.JFrame {
    String Sex="";//initialising variable
    Connection conn=null;
    PreparedStatement pst=null;//database connection
    int rst;
    public NewStaff() {
        initComponents();
        conn=MySQLConnect.ConnectDB();// database connection
        getID();//getID action performed
    }
    public void getID()
{//performing getID
        int tempid=0;
        try{
            String sql2 ="select * from newstaff";// inserting from database
            pst=conn.prepareStatement(sql2);
            ResultSet rs=pst.executeQuery();
            while(rs.next())
            {
                tempid = rs.getInt(1);//setting getID as 1
            }
            this.tfID.setText(Integer.toString(tempid+1));//incrementing getID by 1
        } catch (SQLException ex) {
            JOptionPane.showMessageDialog(null, ex);
        }
    }
    /**
     * This method is called from within the constructor to initialize the form.
     * WARNING: Do NOT modify this code. The content of this method is always
     * regenerated by the Form Editor.
     */
    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        buttonGroupradio = new javax.swing.ButtonGroup();
        jTextField7 = new javax.swing.JTextField();
```

```
jLabel12 = new javax.swing.JLabel();
jTextField9 = new javax.swing.JTextField();
jTextField10 = new javax.swing.JTextField();
jTextField8 = new javax.swing.JTextField();
jLabel10 = new javax.swing.JLabel();
jLabel11 = new javax.swing.JLabel();
jComboBox1 = new javax.swing.JComboBox<>();
jLabel1 = new javax.swing.JLabel();
jSeparator1 = new javax.swing.JSeparator();
jSeparator2 = new javax.swing.JSeparator();
jLabel2 = new javax.swing.JLabel();
tfFullName = new javax.swing.JTextField();
jLabel3 = new javax.swing.JLabel();
tfAge = new javax.swing.JTextField();
jLabel4 = new javax.swing.JLabel();
rbMale = new javax.swing.JRadioButton();
rbFemale = new javax.swing.JRadioButton();
rbOther = new javax.swing.JRadioButton();
jLabel5 = new javax.swing.JLabel();
tfAddress = new javax.swing.JTextField();
jLabel6 = new javax.swing.JLabel();
tfMobNo = new javax.swing.JTextField();
tfEmail = new javax.swing.JTextField();
jLabel7 = new javax.swing.JLabel();
CboPos = new javax.swing.JComboBox<>();
jLabel8 = new javax.swing.JLabel();
tfSalary = new javax.swing.JTextField();
jSeparator3 = new javax.swing.JSeparator();
jLabel9 = new javax.swing.JLabel();
tfEname = new javax.swing.JTextField();
jLabel13 = new javax.swing.JLabel();
jLabel14 = new javax.swing.JLabel();
tfEaddress = new javax.swing.JTextField();
jLabel15 = new javax.swing.JLabel();
jLabel16 = new javax.swing.JLabel();
tfRelation = new javax.swing.JTextField();
bSave = new javax.swing.JButton();
tfEmob = new javax.swing.JTextField();
tfEmail = new javax.swing.JTextField();
jPanel2 = new javax.swing.JPanel();
jLabel17 = new javax.swing.JLabel();
tfID = new javax.swing.JTextField();
```

```
jTextField7.setText(" ");
```

```
jLabel12.setText("Mob No/Email ID:");
```

```

jTextField9.setText(" ");

jTextField10.setText(" ");

jTextField8.setText(" ");

jLabel10.setText("Full Name:");

jLabel11.setText("Address:");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "Item
1", "Item 2", "Item 3", "Item 4" }));

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
addComponentListener(new java.awt.event.ComponentAdapter() {
    public void componentHidden(java.awt.event.ComponentEvent evt) {
        formComponentHidden(evt);
    }
});

jLabel1.setFont(new java.awt.Font("Lucida Grande", 3, 18)); // NOI18N
jLabel1.setText("New Staff");

jLabel2.setText("Full Name:");

tfFullName.setText(" ");

jLabel3.setText("Age:");

tfAge.setText(" ");

jLabel4.setText("Sex:");

buttonGroupradio.add(rbMale);
rbMale.setText("Male");
rbMale.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        rbMaleActionPerformed(evt);
    }
});

buttonGroupradio.add(rbFemale);
rbFemale.setText("Female");
rbFemale.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        rbFemaleActionPerformed(evt);
    }
}

```

```

});

buttonGroupradio.add(rbOther);
rbOther.setText("Other");
rbOther.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        rbOtherActionPerformed(evt);
    }
});

jLabel5.setText("Address:");

tfAddress.setText(" ");

jLabel6.setText("Mob No/Email ID:");

tfMobNo.setText(" ");

tfEmail.setText(" ");
tfEmail.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tfEmailActionPerformed(evt);
    }
});

jLabel7.setText("Position:");

CboPos.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "",
"Manager", "Assistant", "Receptionist", "Finance" }));
CboPos.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        CboPosActionPerformed(evt);
    }
});

jLabel8.setText("Salary/Mo:");

tfSalary.setText(" ");

jLabel9.setFont(new java.awt.Font("Lucida Grande", 1, 13)); // NOI18N
jLabel9.setText("EMERGENCY CONTACT DETAILS ");

tfEname.setText(" ");

jLabel13.setText("Full Name:");

jLabel14.setText("Mob No/Email ID:");

```

```

tfEaddress.setText(" ");

jLabel15.setText("Address:");

jLabel16.setText("Relation:");

tfRelation.setText(" ");

bSave.setText("Save");
bSave.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        bSaveActionPerformed(evt);
    }
});

tfEmob.setText(" ");

tfEemail.setText(" ");
tfEemail.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        tfEemailActionPerformed(evt);
    }
});

jPanel2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);
jPanel2.setLayout(jPanel2Layout);
jPanel2Layout.setHorizontalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 100, Short.MAX_VALUE)
);
jPanel2Layout.setVerticalGroup(
    jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGap(0, 100, Short.MAX_VALUE)
);

jLabel17.setText("ID:");

tfID.setEditable(false);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

```



```

.addComponent(jSeparator2, javax.swing.GroupLayout.Alignment.TRAILING)
.addGroup(layout.createSequentialGroup())
    .addGap(10, 10, 10)

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

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

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addGroup(layout.createSequentialGroup())
    .addComponent(jLabel3)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(tfAge)
    .addComponent(jLabel2))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
    .addComponent(tfFullName,
javax.swing.GroupLayout.PREFERRED_SIZE, 129,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createSequentialGroup())
    .addComponent(jLabel4)
    .addGap(18, 18, 18)
    .addComponent(rbMale)

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

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

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

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)
    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addGroup(layout.createSequentialGroup())
    .addComponent(jLabel17)

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

```

```

        .addGap(16, 16, 16))
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel7)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(CboPos, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(0, 0, Short.MAX_VALUE))
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel6)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfMobNo, javax.swing.GroupLayout.PREFERRED_SIZE,
107, javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(71, 71, 71)
        .addComponent(tfEmail))
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel5)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfAddress)))
        .addContainerGap())
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel8)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfSalary, javax.swing.GroupLayout.PREFERRED_SIZE, 74,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE,
Short.MAX_VALUE))))
        .addComponent(jSeparator3)
        .addGroup(layout.createSequentialGroup())

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addGap(89, 89, 89)
        .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 50,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup())
        .addContainerGap()

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(jLabel9)
        .addGroup(layout.createSequentialGroup())
        .addGap(6, 6, 6)

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

```

```

        .addComponent(jLabel14)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfEmob, javax.swing.GroupLayout.PREFERRED_SIZE,
107, javax.swing.GroupLayout.PREFERRED_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(tfEmail))
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel13)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(tfEname)
        .addGap(171, 171, 171))
        .addGroup(layout.createSequentialGroup())

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel15)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(tfEaddress,
javax.swing.GroupLayout.PREFERRED_SIZE, 322,
javax.swing.GroupLayout.PREFERRED_SIZE))
        .addGroup(layout.createSequentialGroup())
        .addComponent(jLabel16)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
        .addComponent(tfRelation,
javax.swing.GroupLayout.PREFERRED_SIZE, 87, javax.swing.GroupLayout.PREFERRED_SIZE)))
        .addGap(0, 30, Short.MAX_VALUE))))))
        .addContainerGap())
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addGap(0, 0, Short.MAX_VALUE)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addComponent(bSave, javax.swing.GroupLayout.Alignment.TRAILING)
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup())
        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 100,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addGap(164, 164, 164)))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup())

```

```

.addContainerGap()
.addComponent(jLabel1)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()
        .addGap(26, 26, 26)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel2)
    .addComponent(tfFullName, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel3)
    .addComponent(tfAge, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel4)
    .addComponent(rbMale)
    .addComponent(rbFemale)
    .addComponent(rbOther))
    .addGap(10, 10, 10)
    .addComponent(jSeparator1, javax.swing.GroupLayout.PREFERRED_SIZE, 0,
javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGroup(layout.createSequentialGroup()
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
        .addComponent(jSeparator2, javax.swing.GroupLayout.PREFERRED_SIZE, 10,
javax.swing.GroupLayout.PREFERRED_SIZE)
        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel17)
    .addComponent(tfID, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel5)
    .addComponent(tfAddress, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addGap(18, 18, 18)

```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel6)
    .addComponent(tfMobNo, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(tfEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel7)
    .addComponent(CboPos, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel8)
    .addComponent(tfSalary, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jSeparator3, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
    .addComponent(jLabel9)
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel13)
    .addComponent(tfEname, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel15)
    .addComponent(tfEaddress, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
```

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

```
.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(tfEmob, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
    .addComponent(tfEmail, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addComponent(jLabel14))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)
```

```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel16)
    .addComponent(tfRelation, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))
    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(bSave))
);

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

```

```

private void rbFemaleActionPerformed(java.awt.event.ActionEvent evt) {
    Sex = "Female"; //segregating data for radio button
}

```

```

private void bSaveActionPerformed(java.awt.event.ActionEvent evt) {
    String Sql="insert into newstaff values (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";
    try{ //storing the input data into the staff database table
        pst = conn.prepareStatement(Sql);
        pst.setString(1,this.tfID.getText());
        pst.setString(2,this.tfFullName.getText());
        pst.setString(3,this.tfAge.getText());
        pst.setString(4,Sex);
        pst.setString(5,this.tfAddress.getText());
        pst.setString(6,this.tfMobNo.getText());
        pst.setString(7,this.tfEmail.getText());
        pst.setString(8, (String) this.CboPos.getSelectedItem());
        pst.setString(9,this.tfSalary.getText());
        pst.setString(10,this.tfEname.getText());
        pst.setString(11,this.tfEaddress.getText());
        pst.setString(12,this.tfEmob.getText());
        pst.setString(13,this.tfEemail.getText());
        pst.setString(14,this.tfRelation.getText());
    }
}

```

```

int i = pst.executeUpdate();
if(i>0)
{

```

```

    JOptionPane.showMessageDialog(null, "Staff Successfully Added!");
    if (login.glv==1) //setting condition of the global variable for appropriate
dashboard
    {
        this.dispose();
        new AdminDashboard().setVisible(true);
    }
}

```

```

    }
    else
    {
        this.dispose();
        new EmployeeDashboard().setVisible(true);
    }

}
else{
    JOptionPane.showMessageDialog(null,"Error, Adding staff");
}
}
catch(HeadlessException | SQLException e){
    JOptionPane.showMessageDialog(null, e);
}
}

private void rbMaleActionPerformed(java.awt.event.ActionEvent evt) {
    Sex = "Male"; //segregating data for radio button
}

private void rbOtherActionPerformed(java.awt.event.ActionEvent evt) {
    Sex = "Other"; //segregating data for radio button
}

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

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

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

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

```
// Variables declaration - do not modify
private javax.swing.JComboBox<String> CboPos;
private javax.swing.JButton bSave;
private javax.swing.ButtonGroup buttonGroupradio;
private javax.swing.JComboBox<String> jComboBox1;
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 jLabel15;
private javax.swing.JLabel jLabel16;
private javax.swing.JLabel jLabel17;
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.JPanel jPanel2;  
private javax.swing.JSeparator jSeparator1;  
private javax.swing.JSeparator jSeparator2;  
private javax.swing.JSeparator jSeparator3;  
private javax.swing.JTextField jTextField10;  
private javax.swing.JTextField jTextField7;  
private javax.swing.JTextField jTextField8;  
private javax.swing.JTextField jTextField9;  
private javax.swing.JRadioButton rbFemale;  
private javax.swing.JRadioButton rbMale;  
private javax.swing.JRadioButton rbOther;  
private javax.swing.JTextField tfAddress;  
private javax.swing.JTextField tfAge;  
private javax.swing.JTextField tfEaddress;  
private javax.swing.JTextField tfEemail;  
private javax.swing.JTextField tfEmail;  
private javax.swing.JTextField tfEmob;  
private javax.swing.JTextField tfEname;  
private javax.swing.JTextField tfFullName;  
private javax.swing.JTextField tfID;  
private javax.swing.JTextField tfMobNo;  
private javax.swing.JTextField tfRelation;  
private javax.swing.JTextField tfSalary;  
// End of variables declaration  
}
```