# JAVA PROGRAMMING – S.SRIHARI – 2018103601—P BATCH

# Student.java (INSERTING RECORDS)

package dbproject;

import java.sql.\*;

import javax.swing.\*;

public class Student extends javax.swing.JFrame {

public Student() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel7 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

jLabel9 = new javax.swing.JLabel();

jLabel10 = new javax.swing.JLabel();

jLabel11 = new javax.swing.JLabel();

jLabel12 = new javax.swing.JLabel();

rollno = new javax.swing.JTextField();

name = new javax.swing.JTextField();

address = new javax.swing.JTextField();

age = new javax.swing.JTextField();

compiler = new javax.swing.JComboBox();

ooad = new javax.swing.JComboBox();

software = new javax.swing.JComboBox();

javasc = new javax.swing.JComboBox();

networks = new javax.swing.JComboBox();

jLabel13 = new javax.swing.JLabel();

gender = new javax.swing.JTextField();

submit = new javax.swing.JButton();

clear = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Simplified Arabic Fixed", 1, 14)); // NOI18N

jLabel1.setForeground(new java.awt.Color(255, 51, 51));

jLabel1.setText("Insert Student Information");

jLabel2.setText("RollNo");

jLabel3.setText("Name");

jLabel4.setText("Age");

jLabel5.setText("Address");

jLabel6.setText("Compiler");

jLabel7.setText("OOAD");

jLabel8.setText("Software");

jLabel9.setText("Java");

jLabel10.setText("Networks");

jLabel11.setForeground(new java.awt.Color(0, 51, 255));

jLabel11.setText("Personal Details");

jLabel12.setForeground(new java.awt.Color(51, 0, 255));

jLabel12.setText("Scores");

compiler.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "10", "9", "8", "7", "6" }));

ooad.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "10", "9", "8", "7", "6" }));

software.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "10", "9", "8", "7", "6" }));

javasc.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "10", "9", "8", "7", "6" }));

networks.setModel(new javax.swing.DefaultComboBoxModel(new String[] { "10", "9", "8", "7", "6" }));

jLabel13.setText("Gender");

submit.setText("Submit");

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

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

submitActionPerformed(evt);

}

});

clear.setText("Clear");

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

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

clearActionPerformed(evt);

}

});

jButton1.setText("Back");

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)

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(48, 48, 48)

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

.addComponent(jLabel6)

.addComponent(compiler, 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.LEADING)

.addComponent(jLabel8)

.addComponent(software, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(31, 31, 31)

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

.addGroup(layout.createSequentialGroup()

.addComponent(javasc, 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(networks, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel9)

.addGap(41, 41, 41)

.addComponent(jLabel10))))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(33, 33, 33)

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

.addComponent(jLabel12)

.addComponent(jLabel11)))

.addGroup(layout.createSequentialGroup()

.addGap(57, 57, 57)

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

.addComponent(jLabel2)

.addComponent(rollno, javax.swing.GroupLayout.PREFERRED\_SIZE, 69, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(layout.createSequentialGroup()

.addGap(33, 33, 33)

.addComponent(jLabel3))

.addGroup(layout.createSequentialGroup()

.addGap(18, 18, 18)

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

.addComponent(jLabel7)

.addComponent(name, javax.swing.GroupLayout.PREFERRED\_SIZE, 64, javax.swing.GroupLayout.PREFERRED\_SIZE))))

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

.addGroup(layout.createSequentialGroup()

.addGap(51, 51, 51)

.addComponent(jLabel4)

.addGap(61, 61, 61)

.addComponent(jLabel5))

.addGroup(layout.createSequentialGroup()

.addGap(40, 40, 40)

.addComponent(age, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(35, 35, 35)

.addComponent(address, javax.swing.GroupLayout.PREFERRED\_SIZE, 76, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGroup(layout.createSequentialGroup()

.addGap(138, 138, 138)

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

.addComponent(ooad, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel1))))

.addGap(0, 29, Short.MAX\_VALUE)))

.addGap(14, 14, 14)

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

.addComponent(jLabel13)

.addComponent(gender, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(23, 23, 23))

.addGroup(layout.createSequentialGroup()

.addGap(118, 118, 118)

.addComponent(submit)

.addGap(74, 74, 74)

.addComponent(clear)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1)

.addGap(65, 65, 65))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(53, 53, 53)

.addComponent(jLabel1)

.addGap(16, 16, 16)

.addComponent(jLabel11)

.addGap(18, 18, 18)

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

.addComponent(jLabel2)

.addComponent(jLabel3)

.addComponent(jLabel4)

.addComponent(jLabel5)

.addComponent(jLabel13))

.addGap(18, 18, 18)

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

.addComponent(rollno, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(name, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(address, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(age, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(gender, 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(jLabel12)

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

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

.addComponent(jLabel6)

.addComponent(jLabel7)

.addComponent(jLabel8)

.addComponent(jLabel9)

.addComponent(jLabel10))

.addGap(18, 18, 18)

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

.addComponent(compiler, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(ooad, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(software, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(javasc, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(networks, 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.BASELINE)

.addComponent(submit)

.addComponent(clear)

.addComponent(jButton1))

.addGap(59, 59, 59))

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

try{

Connection con = DriverManager.getConnection("jdbc:derby://localhost:1527/StudentRecord","srihari","srihari");

PreparedStatement st = con.prepareStatement("insert into studentrepository values(?,?,?,?,?,?,?,?,?,?,?)");

st.setInt(1,Integer.parseInt(rollno.getText()));

st.setString(2,name.getText());

st.setInt(3,Integer.parseInt(age.getText()));

st.setString(4,address.getText());

st.setInt(5,Integer.parseInt(compiler.getSelectedItem().toString()));

st.setInt(6,Integer.parseInt(ooad.getSelectedItem().toString()));

st.setInt(7,Integer.parseInt(software.getSelectedItem().toString()));

st.setInt(8,Integer.parseInt(javasc.getSelectedItem().toString()));

st.setInt(9,Integer.parseInt(networks.getSelectedItem().toString()));

st.setString(10,gender.getText());

st.setFloat(11,0);

int ab = st.executeUpdate();

if(ab > 0){

System.out.println("Row inserted");

JOptionPane.showMessageDialog(null,"insertion successful");

new Dashboard().setVisible(true);

dispose();

}

con.close();

}

catch(Exception e){

JOptionPane.showMessageDialog(null,e);

}

}

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

// TODO add your handling code here:

rollno.setText("");

name.setText("");

age.setText("");

address.setText("");

gender.setText("");

compiler.setSelectedIndex(0);

ooad.setSelectedIndex(0);

software.setSelectedIndex(0);

javasc.setSelectedIndex(0);

networks.setSelectedIndex(0);

}

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

// TODO add your handling code here:

new Dashboard().setVisible(true);

dispose();

}

public static void main(String args[]) {

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Student().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField address;

private javax.swing.JTextField age;

private javax.swing.JButton clear;

private javax.swing.JComboBox compiler;

private javax.swing.JTextField gender;

private javax.swing.JButton jButton1;

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 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.JComboBox javasc;

private javax.swing.JTextField name;

private javax.swing.JComboBox networks;

private javax.swing.JComboBox ooad;

private javax.swing.JTextField rollno;

private javax.swing.JComboBox software;

private javax.swing.JButton submit;

// End of variables declaration

}

## CalCGPA.java (Calculating CGPA)

package dbproject;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JOptionPane;

public class CalCGPA extends javax.swing.JFrame {

public CalCGPA() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

rollno = new javax.swing.JTextField();

submit = new javax.swing.JButton();

jButton1 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel1.setForeground(new java.awt.Color(255, 0, 102));

jLabel1.setText("CGPA Calculator");

jLabel2.setForeground(new java.awt.Color(255, 0, 102));

jLabel2.setText("Enter Roll No");

submit.setForeground(new java.awt.Color(255, 102, 0));

submit.setText("Submit");

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

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

submitActionPerformed(evt);

}

});

jButton1.setForeground(new java.awt.Color(255, 0, 0));

jButton1.setText("Back");

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)

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addGap(83, 83, 83)

.addComponent(jLabel2))

.addGroup(layout.createSequentialGroup()

.addGap(146, 146, 146)

.addComponent(submit)))

.addGap(26, 26, 26)

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

.addComponent(jButton1)

.addComponent(rollno, javax.swing.GroupLayout.PREFERRED\_SIZE, 89, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(74, Short.MAX\_VALUE))

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

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jLabel1)

.addGap(118, 118, 118))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(59, 59, 59)

.addComponent(jLabel1)

.addGap(18, 18, 18)

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

.addComponent(jLabel2)

.addComponent(rollno, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(42, 42, 42)

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

.addComponent(submit)

.addComponent(jButton1))

.addContainerGap(116, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

try{

Connection conn = DriverManager.getConnection("jdbc:derby://localhost:1527/StudentRecord","srihari","srihari");

System.out.println("Connection created");

String sql = "select \* from studentrepository where rollno = ?";

PreparedStatement stmt = conn.prepareStatement(sql);

stmt.setInt(1,Integer.parseInt(rollno.getText()));

ResultSet rs = stmt.executeQuery();

float cgpa\_tot = 0;

if(rs.next()){

cgpa\_tot += Integer.parseInt(rs.getString("compiler"));

cgpa\_tot += Integer.parseInt(rs.getString("ooad"));

cgpa\_tot += Integer.parseInt(rs.getString("software"));

cgpa\_tot += Integer.parseInt(rs.getString("java"));

cgpa\_tot += Integer.parseInt(rs.getString("networks"));

}

else{

JOptionPane.showMessageDialog(null,"Record Not found");

}

cgpa\_tot /= 5.0;

String sql2 = "update studentrepository set cgpa = ? where rollno = ?";

PreparedStatement stmt2 = conn.prepareStatement(sql2);

//stmt.setString(1,name.getText());

stmt2.setFloat(1,cgpa\_tot);

stmt2.setInt(2,Integer.parseInt(rollno.getText()));

stmt2.executeUpdate();

JOptionPane.showMessageDialog(null,rs.getString("name").toUpperCase() +"'s CGPA: "+cgpa\_tot);

conn.close();

} catch (SQLException ex) {

// JOptionPane.showMessageDialog(null,"Record doesnt exist");

JOptionPane.showMessageDialog(null,ex);

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

}

}

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

// TODO add your handling code here:

new Dashboard().setVisible(true);

dispose();

}

public static void main(String args[]) {

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(CalCGPA.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 CalCGPA().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JTextField rollno;

private javax.swing.JButton submit;

// End of variables declaration

}

# StudentDetails.java(Retrieving details)

package dbproject;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.logging.Level;

import java.util.logging.Logger;

import javax.swing.JOptionPane;

public class StudentDetails extends javax.swing.JFrame {

public StudentDetails() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jLabel2 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jLabel7 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

jLabel9 = new javax.swing.JLabel();

jLabel10 = new javax.swing.JLabel();

jLabel11 = new javax.swing.JLabel();

jLabel12 = new javax.swing.JLabel();

rollno = new javax.swing.JTextField();

name = new javax.swing.JTextField();

age = new javax.swing.JTextField();

gender = new javax.swing.JTextField();

address = new javax.swing.JTextField();

compiler = new javax.swing.JTextField();

ooad = new javax.swing.JTextField();

software = new javax.swing.JTextField();

networks = new javax.swing.JTextField();

javasc = new javax.swing.JTextField();

cgpa = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

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

jLabel1.setForeground(new java.awt.Color(255, 0, 51));

jLabel1.setText("Displaying Student Information");

jLabel2.setText("Rollno");

jLabel3.setText("Name");

jLabel4.setText("Age");

jLabel5.setText("Gender");

jLabel6.setText("Address");

jLabel7.setText("Compiler");

jLabel8.setText("OOAD");

jLabel9.setText("Java");

jLabel10.setText("Software");

jLabel11.setText("Networks");

jLabel12.setText("CGPA");

jButton1.setText("Search");

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

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("Clear");

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

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("Back");

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

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("Update");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(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(37, 37, 37)

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

.addGroup(layout.createSequentialGroup()

.addGap(70, 70, 70)

.addComponent(javasc, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, 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(age, javax.swing.GroupLayout.PREFERRED\_SIZE, 52, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel4))

.addGap(18, 18, 18)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel5)

.addGap(46, 46, 46)

.addComponent(jLabel6))

.addGroup(layout.createSequentialGroup()

.addComponent(gender, javax.swing.GroupLayout.PREFERRED\_SIZE, 54, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(address, javax.swing.GroupLayout.PREFERRED\_SIZE, 101, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(31, 31, 31))

.addGroup(layout.createSequentialGroup()

.addGap(12, 12, 12)

.addComponent(jLabel2)

.addGap(42, 42, 42)

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel3)

.addGap(0, 0, Short.MAX\_VALUE))

.addComponent(jLabel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addContainerGap())

.addGroup(layout.createSequentialGroup()

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

.addComponent(rollno, javax.swing.GroupLayout.PREFERRED\_SIZE, 60, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel7))

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

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

.addComponent(compiler)

.addComponent(name, javax.swing.GroupLayout.PREFERRED\_SIZE, 74, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGap(33, 33, 33)

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

.addComponent(jLabel8)

.addGroup(layout.createSequentialGroup()

.addGap(70, 70, 70)

.addComponent(ooad)))

.addGap(147, 147, 147)

.addComponent(jLabel12)

.addGap(96, 96, 96))

.addGroup(layout.createSequentialGroup()

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

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel10)

.addGap(133, 133, 133)

.addComponent(jLabel11)

.addGap(25, 25, 25)

.addComponent(networks)

.addGap(118, 118, 118))

.addGroup(layout.createSequentialGroup()

.addComponent(jLabel9)

.addGap(186, 186, 186)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 65, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jButton4)

.addGap(16, 16, 16)

.addComponent(jButton1)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))

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

.addGroup(layout.createSequentialGroup()

.addGap(63, 63, 63)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 65, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(cgpa, javax.swing.GroupLayout.PREFERRED\_SIZE, 80, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(0, 25, Short.MAX\_VALUE))))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(20, 20, 20)

.addComponent(jLabel1)

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

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

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

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

.addComponent(jLabel2)

.addComponent(jLabel3))

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

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

.addComponent(rollno, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(name, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(24, 24, 24)

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

.addComponent(jLabel7)

.addComponent(compiler, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel8)

.addComponent(ooad, 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(jLabel10)

.addComponent(jLabel11)

.addComponent(networks, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(software, 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(jLabel4)

.addComponent(jLabel5)

.addComponent(jLabel6))

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

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

.addComponent(age, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(gender, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(address, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(36, 36, 36)

.addComponent(jLabel12)

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

.addComponent(cgpa, javax.swing.GroupLayout.PREFERRED\_SIZE, 59, javax.swing.GroupLayout.PREFERRED\_SIZE)))

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

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

.addComponent(javasc, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton4)

.addComponent(jButton3)

.addComponent(jButton1)

.addComponent(jButton2)

.addComponent(jLabel9))

.addContainerGap(198, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

try{

Connection conn = DriverManager.getConnection("jdbc:derby://localhost:1527/StudentRecord","srihari","srihari");

System.out.println("Connection created");

//Statement st = conn.createStatement();

String sql = "select \* from studentrepository where rollno = ?";

PreparedStatement stmt = conn.prepareStatement(sql);

stmt.setInt(1,Integer.parseInt(rollno.getText()));

ResultSet rs = stmt.executeQuery();

if(rs.next()){

name.setText(rs.getString("name"));

age.setText(rs.getString("age"));

gender.setText(rs.getString("gender"));

address.setText(rs.getString("address"));

compiler.setText(rs.getString("compiler"));

ooad.setText(rs.getString("ooad"));

software.setText(rs.getString("software"));

javasc.setText(rs.getString("java"));

networks.setText(rs.getString("networks"));

cgpa.setText(rs.getString("cgpa"));

}

else{

JOptionPane.showMessageDialog(null,"Record Not found");

}

conn.close();

} catch (SQLException ex) {

JOptionPane.showMessageDialog(null,ex);

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

}

}

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

// TODO add your handling code here:

rollno.setText("");

name.setText("");

age.setText("");

address.setText("");

compiler.setText("");

ooad.setText("");

javasc.setText("");

networks.setText("");

software.setText("");

gender.setText("");

cgpa.setText("");

}

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

// TODO add your handling code here:

new Dashboard().setVisible(true);

dispose();

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

try{

Connection conn = DriverManager.getConnection("jdbc:derby://localhost:1527/StudentRecord","srihari","srihari");

System.out.println("Connection created");

String sql = "update studentrepository set name = ?,age = ?,gender = ?,address = ?,compiler = ?,java = ?,ooad = ?,software = ?,networks = ?,cgpa = ? where rollno = ?";

PreparedStatement stmt = conn.prepareStatement(sql);

stmt.setString(1,name.getText());

stmt.setInt(2,Integer.parseInt(age.getText()));

stmt.setString(4,address.getText());

stmt.setInt(5,Integer.parseInt(compiler.getText()));

stmt.setInt(7,Integer.parseInt(ooad.getText()));

stmt.setInt(8,Integer.parseInt(software.getText()));

stmt.setInt(6,Integer.parseInt(javasc.getText()));

stmt.setInt(9,Integer.parseInt(networks.getText()));

stmt.setString(3,gender.getText());

stmt.setFloat(10,Float.parseFloat(cgpa.getText()));

stmt.setInt(11,Integer.parseInt(rollno.getText()));

stmt.executeUpdate();

JOptionPane.showMessageDialog(null,"Record Updated Successfully");

conn.close();

} catch (SQLException ex) {

JOptionPane.showMessageDialog(null,ex);

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

}

}

public static void main(String args[]) {

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(StudentDetails.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 StudentDetails().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JTextField address;

private javax.swing.JTextField age;

private javax.swing.JTextField cgpa;

private javax.swing.JTextField compiler;

private javax.swing.JTextField gender;

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

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.JTextField javasc;

private javax.swing.JTextField name;

private javax.swing.JTextField networks;

private javax.swing.JTextField ooad;

private javax.swing.JTextField rollno;

private javax.swing.JTextField software;

// End of variables declaration

}

## Dashboard.java

package dbproject;

public class Dashboard extends javax.swing.JFrame {

public Dashboard() {

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

setTitle("Student Portal");

setBackground(new java.awt.Color(0, 204, 204));

jLabel1.setFont(new java.awt.Font("Calibri", 1, 24)); // NOI18N

jLabel1.setForeground(new java.awt.Color(255, 51, 51));

jLabel1.setText("Student Portal");

jButton1.setForeground(new java.awt.Color(255, 153, 0));

jButton1.setText("Insert Data");

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

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

jButton1ActionPerformed(evt);

}

});

jButton3.setForeground(new java.awt.Color(255, 153, 0));

jButton3.setText("Retrieve or Update Details");

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

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

jButton3ActionPerformed(evt);

}

});

jButton4.setForeground(new java.awt.Color(255, 153, 0));

jButton4.setText("Calculate CGPA");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(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(88, 88, 88)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 177, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

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

.addGroup(layout.createSequentialGroup()

.addGap(167, 167, 167)

.addComponent(jButton4))

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

.addComponent(jLabel1)

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

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

.addComponent(jButton1)

.addGap(24, 24, 24))))

.addContainerGap(75, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addGap(51, 51, 51)

.addComponent(jLabel1)

.addGap(64, 64, 64)

.addComponent(jButton1)

.addGap(53, 53, 53)

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

.addComponent(jButton3)

.addComponent(jButton4))

.addContainerGap(137, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

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

new Student().setVisible(true);

dispose();

}

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

new StudentDetails().setVisible(true);

dispose();

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

new CalCGPA().setVisible(true);

dispose();

}

public static void main(String args[]) {

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

//</editor-fold>

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Dashboard().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JLabel jLabel1;

// End of variables declaration

}