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() {
    ¡Label1 = new javax.swing.JLabel();
    ¡Label2 = new javax.swing.JLabel();
    jLabel3 = new javax.swing.JLabel();
    ¡Label4 = 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();
    ¡Button1 = 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");
    iLabel4.setText("Age");
    jLabel5.setText("Address");
    ¡Label6.setText("Compiler");
    jLabel7.setText("OOAD");
    ¡Label8.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");
    ¡Button1.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(iLabel8)
              .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)
. add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. LEAD ING) \\
                      .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, properties of the prop
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");
   ¡Button1.addActionListener(new java.awt.event.ActionListener() {
      public void actionPerformed(java.awt.event.ActionEvent evt) {
        ¡Button1ActionPerformed(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 \neq 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());
        }
      }
    } 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();
    ¡Label4 = 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();
```

```
¡Button1 = new javax.swing.JButton();
jButton2 = new javax.swing.JButton();
¡Button3 = 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");
¡Label2.setText("Rollno");
¡Label3.setText("Name");
jLabel4.setText("Age");
jLabel5.setText("Gender");
¡Label6.setText("Address");
jLabel7.setText("Compiler");
jLabel8.setText("OOAD");
jLabel9.setText("Java");
¡Label10.setText("Software");
¡Label11.setText("Networks");
iLabel12.setText("CGPA");
jButton1.setText("Search");
jButton1.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    jButton1ActionPerformed(evt);
  }
});
¡Button2.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) {
    ¡Button3ActionPerformed(evt);
  }
});
¡Button4.setText("Update");
jButton4.addActionListener(new java.awt.event.ActionListener() {
  public void actionPerformed(java.awt.event.ActionEvent evt) {
    ¡Button4ActionPerformed(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)
            . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. 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()
            . add Group (layout.create Parallel Group (javax.swing. Group Layout. 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(iButton4)
                .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))
            . add Preferred Gap (javax.swing. Layout Style. Component Placement. 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)
            . add Group (layout.create Parallel Group (javax.swing. Group Layout. A lignment. 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();
    ¡Button1 = new javax.swing.JButton();
    ¡Button3 = 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));
    ¡Label1.setText("Student Portal");
    jButton1.setForeground(new java.awt.Color(255, 153, 0));
    ¡Button1.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));
    ¡Button3.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) {
        ¡Button4ActionPerformed(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[]) {
               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, logger.getLogger(Dashboard.class.getName()).log(java.util.logging.Level.SEVERE, logger.getLogger.getLogger(Dashboard.class.getName()).log(java.util.logging.Level.SEVERE, logger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger.getLogger
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
```