**Appendix**

**Java Code**

**BooksAvalibilityForm.Java**

package My\_Forms;

import java.sql.\*;

import javax.swing.JOptionPane;

import javax.swing.table.DefaultTableModel;

public class BooksAvalibilityForm extends javax.swing.JFrame {

/\*\*

\* Creates new form BooksAvalibilityForm

\*/

public ConnectDb dbconnect = new ConnectDb();

public BooksAvalibilityForm() {

initComponents();

this.setLocationRelativeTo(null);

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jMenuItem1 = new javax.swing.JMenuItem();

jTextField1 = new javax.swing.JTextField();

Avalibility\_choosen\_dropdown = new javax.swing.JComboBox<>();

Avalibility\_panel\_0 = new javax.swing.JPanel();

title = new javax.swing.JLabel();

goback = new javax.swing.JButton();

Avalibility\_panel\_1 = new javax.swing.JPanel();

Avalibility\_criteria\_fieldname = new javax.swing.JLabel();

jComboBox1 = new javax.swing.JComboBox<>();

Okay\_button = new javax.swing.JButton();

Avalibility\_panel\_3 = new javax.swing.JPanel();

jScrollPane1 = new javax.swing.JScrollPane();

Avalibility\_outputtable = new javax.swing.JTable();

Avalibility\_panel\_2 = new javax.swing.JPanel();

Avalibility\_choosen\_fieldname = new javax.swing.JLabel();

Search\_button = new javax.swing.JButton();

CriteriaTextField = new javax.swing.JTextField();

jMenuItem1.setText("jMenuItem1");

jTextField1.setText("jTextField1");

Avalibility\_choosen\_dropdown.addActionListener(new java.awt.event.ActionListener() {

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

Avalibility\_choosen\_dropdownActionPerformed(evt);

}

});

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

Avalibility\_panel\_0.setBackground(java.awt.Color.white);

title.setFont(new java.awt.Font("Arial", 0, 30)); // NOI18N

title.setText(" Books Availability");

goback.setBackground(java.awt.Color.black);

goback.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

goback.setForeground(java.awt.Color.white);

goback.setText("Go Back");

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

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

gobackActionPerformed(evt);

}

});

Avalibility\_panel\_1.setBackground(java.awt.Color.white);

Avalibility\_panel\_1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

Avalibility\_panel\_1.setForeground(java.awt.Color.white);

Avalibility\_criteria\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Avalibility\_criteria\_fieldname.setText("Choose a criteria");

jComboBox1.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "null", "genre", "level", "publisher", "author" }));

Okay\_button.setBackground(java.awt.Color.black);

Okay\_button.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Okay\_button.setForeground(java.awt.Color.white);

Okay\_button.setText("Okay");

Okay\_button.addActionListener(new java.awt.event.ActionListener() {

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

Okay\_buttonActionPerformed(evt);

}

});

javax.swing.GroupLayout Avalibility\_panel\_1Layout = new javax.swing.GroupLayout(Avalibility\_panel\_1);

Avalibility\_panel\_1.setLayout(Avalibility\_panel\_1Layout);

Avalibility\_panel\_1Layout.setHorizontalGroup(

Avalibility\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Avalibility\_panel\_1Layout.createSequentialGroup()

.addContainerGap(65, Short.MAX\_VALUE)

.addGroup(Avalibility\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Avalibility\_panel\_1Layout.createSequentialGroup()

.addComponent(Avalibility\_criteria\_fieldname, javax.swing.GroupLayout.PREFERRED\_SIZE, 168, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(77, 77, 77))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Avalibility\_panel\_1Layout.createSequentialGroup()

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, 252, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(34, 34, 34))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Avalibility\_panel\_1Layout.createSequentialGroup()

.addComponent(Okay\_button)

.addGap(129, 129, 129))))

);

Avalibility\_panel\_1Layout.setVerticalGroup(

Avalibility\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Avalibility\_panel\_1Layout.createSequentialGroup()

.addGap(61, 61, 61)

.addComponent(Avalibility\_criteria\_fieldname, javax.swing.GroupLayout.PREFERRED\_SIZE, 58, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jComboBox1, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(31, 31, 31)

.addComponent(Okay\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

Avalibility\_panel\_3.setBackground(java.awt.Color.white);

Avalibility\_panel\_3.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

Avalibility\_outputtable.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

},

new String [] {

"Book ID", "Book title", "Book Level", "Book Genre ", "Book publisher", " Book Author"

}

));

jScrollPane1.setViewportView(Avalibility\_outputtable);

if (Avalibility\_outputtable.getColumnModel().getColumnCount() > 0) {

Avalibility\_outputtable.getColumnModel().getColumn(0).setHeaderValue("Book ID");

Avalibility\_outputtable.getColumnModel().getColumn(1).setHeaderValue("Book title");

Avalibility\_outputtable.getColumnModel().getColumn(2).setHeaderValue("Book Level");

Avalibility\_outputtable.getColumnModel().getColumn(3).setHeaderValue("Book Genre ");

Avalibility\_outputtable.getColumnModel().getColumn(4).setHeaderValue("Book publisher");

Avalibility\_outputtable.getColumnModel().getColumn(5).setHeaderValue(" Book Author");

}

javax.swing.GroupLayout Avalibility\_panel\_3Layout = new javax.swing.GroupLayout(Avalibility\_panel\_3);

Avalibility\_panel\_3.setLayout(Avalibility\_panel\_3Layout);

Avalibility\_panel\_3Layout.setHorizontalGroup(

Avalibility\_panel\_3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Avalibility\_panel\_3Layout.createSequentialGroup()

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

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 713, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())

);

Avalibility\_panel\_3Layout.setVerticalGroup(

Avalibility\_panel\_3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Avalibility\_panel\_3Layout.createSequentialGroup()

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

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 258, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(39, 39, 39))

);

Avalibility\_panel\_2.setBackground(java.awt.Color.white);

Avalibility\_panel\_2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

Avalibility\_choosen\_fieldname.setBackground(java.awt.Color.black);

Avalibility\_choosen\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Search\_button.setBackground(java.awt.Color.black);

Search\_button.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Search\_button.setForeground(java.awt.Color.white);

Search\_button.setText("Search");

Search\_button.addActionListener(new java.awt.event.ActionListener() {

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

Search\_buttonActionPerformed(evt);

}

});

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

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

CriteriaTextFieldActionPerformed(evt);

}

});

javax.swing.GroupLayout Avalibility\_panel\_2Layout = new javax.swing.GroupLayout(Avalibility\_panel\_2);

Avalibility\_panel\_2.setLayout(Avalibility\_panel\_2Layout);

Avalibility\_panel\_2Layout.setHorizontalGroup(

Avalibility\_panel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Avalibility\_panel\_2Layout.createSequentialGroup()

.addGap(78, 78, 78)

.addComponent(Avalibility\_choosen\_fieldname, javax.swing.GroupLayout.PREFERRED\_SIZE, 150, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Avalibility\_panel\_2Layout.createSequentialGroup()

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

.addComponent(Search\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 129, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(76, 76, 76))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Avalibility\_panel\_2Layout.createSequentialGroup()

.addContainerGap(32, Short.MAX\_VALUE)

.addComponent(CriteriaTextField, javax.swing.GroupLayout.PREFERRED\_SIZE, 237, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())

);

Avalibility\_panel\_2Layout.setVerticalGroup(

Avalibility\_panel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Avalibility\_panel\_2Layout.createSequentialGroup()

.addContainerGap(62, Short.MAX\_VALUE)

.addComponent(Avalibility\_choosen\_fieldname, javax.swing.GroupLayout.PREFERRED\_SIZE, 36, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(31, 31, 31)

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

.addGap(26, 26, 26)

.addComponent(Search\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(97, 97, 97))

);

javax.swing.GroupLayout Avalibility\_panel\_0Layout = new javax.swing.GroupLayout(Avalibility\_panel\_0);

Avalibility\_panel\_0.setLayout(Avalibility\_panel\_0Layout);

Avalibility\_panel\_0Layout.setHorizontalGroup(

Avalibility\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Avalibility\_panel\_0Layout.createSequentialGroup()

.addGap(30, 30, 30)

.addComponent(goback)

.addGap(83, 83, 83)

.addComponent(title, javax.swing.GroupLayout.PREFERRED\_SIZE, 335, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Avalibility\_panel\_0Layout.createSequentialGroup()

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

.addGroup(Avalibility\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(Avalibility\_panel\_3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(Avalibility\_panel\_0Layout.createSequentialGroup()

.addComponent(Avalibility\_panel\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(46, 46, 46)

.addComponent(Avalibility\_panel\_2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addContainerGap(48, Short.MAX\_VALUE))

);

Avalibility\_panel\_0Layout.setVerticalGroup(

Avalibility\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Avalibility\_panel\_0Layout.createSequentialGroup()

.addContainerGap()

.addGroup(Avalibility\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

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

.addComponent(goback, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(Avalibility\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(Avalibility\_panel\_0Layout.createSequentialGroup()

.addGap(18, 18, 18)

.addComponent(Avalibility\_panel\_2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(Avalibility\_panel\_0Layout.createSequentialGroup()

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

.addComponent(Avalibility\_panel\_1, 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(Avalibility\_panel\_3, javax.swing.GroupLayout.PREFERRED\_SIZE, 299, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(Avalibility\_panel\_0, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

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

.addComponent(Avalibility\_panel\_0, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

Dashboardform Dashform = new Dashboardform();

Dashform.setVisible(true);

this.setVisible(false);

}

private void Search\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if(jComboBox1.getSelectedItem().toString().equalsIgnoreCase("genre")){

DefaultTableModel model = (DefaultTableModel) Avalibility\_outputtable.getModel();

model.setRowCount(0);

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from book where issued = 'N' and genre ='" +CriteriaTextField.getText()+"'";

System.out.println(firstSql);

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String id = String.valueOf(rs.getInt("id"));

String name = rs.getString("name");

String level = String.valueOf(rs.getInt("level"));

String genre = rs.getString("genre");

String publisher = rs.getString("publisher");

String author = rs.getString("author");

String tbData[] = {id,name,level,genre,publisher,author};

DefaultTableModel tblmodle = (DefaultTableModel)Avalibility\_outputtable.getModel();

tblmodle.addRow(tbData);

}

} catch (Exception e) {

}

}else if(jComboBox1.getSelectedItem().toString().equalsIgnoreCase("level")){

DefaultTableModel model = (DefaultTableModel) Avalibility\_outputtable.getModel();

model.setRowCount(0);

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from book where issued = 'N' and level ='" +Integer.parseInt(CriteriaTextField.getText())+"'";

System.out.println(firstSql);

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String id = String.valueOf(rs.getInt("id"));

String name = rs.getString("name");

String level = String.valueOf(rs.getInt("level"));

String genre = rs.getString("genre");

String publisher = rs.getString("publisher");

String author = rs.getString("author");

String tbData[] = {id,name,level,genre,publisher,author};

DefaultTableModel tblmodle = (DefaultTableModel)Avalibility\_outputtable.getModel();

tblmodle.addRow(tbData);

}

} catch (Exception e) {

}

}else if(jComboBox1.getSelectedItem().toString().equalsIgnoreCase("publisher")){

DefaultTableModel model = (DefaultTableModel) Avalibility\_outputtable.getModel();

model.setRowCount(0);

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from book where issued = 'N' and publisher ='" +CriteriaTextField.getText()+"'";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String id = String.valueOf(rs.getInt("id"));

String name = rs.getString("name");

String level = String.valueOf(rs.getInt("level"));

String genre = rs.getString("genre");

String publisher = rs.getString("publisher");

String author = rs.getString("author");

String tbData[] = {id,name,level,genre,publisher,author};

DefaultTableModel tblmodle = (DefaultTableModel)Avalibility\_outputtable.getModel();

tblmodle.addRow(tbData);

}

} catch (Exception e) {

}

}else if(jComboBox1.getSelectedItem().toString().equalsIgnoreCase("author")){

DefaultTableModel model = (DefaultTableModel) Avalibility\_outputtable.getModel();

model.setRowCount(0);

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from book where issued = 'N' and author ='" +CriteriaTextField.getText()+"'";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String id = String.valueOf(rs.getInt("id"));

String name = rs.getString("name");

String level = String.valueOf(rs.getInt("level"));

String genre = rs.getString("genre");

String publisher = rs.getString("publisher");

String author = rs.getString("author");

String tbData[] = {id,name,level,genre,publisher,author};

DefaultTableModel tblmodle = (DefaultTableModel)Avalibility\_outputtable.getModel();

tblmodle.addRow(tbData);

}

} catch (Exception e) {

}

}

}

private void Okay\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if(jComboBox1.getSelectedItem().toString().equalsIgnoreCase("genre")){

Avalibility\_choosen\_fieldname.setText("genre");

}else if(jComboBox1.getSelectedItem().toString().equalsIgnoreCase("level")){

Avalibility\_choosen\_fieldname.setText("Level");

}else if(jComboBox1.getSelectedItem().toString().equalsIgnoreCase("publisher")){

Avalibility\_choosen\_fieldname.setText("Publisher");

}else if(jComboBox1.getSelectedItem().toString().equalsIgnoreCase("author")){

Avalibility\_choosen\_fieldname.setText("author");

}

}

private void Avalibility\_choosen\_dropdownActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

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

// TODO add your handling code here:

}

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

});

}

// Variables declaration - do not modify

private javax.swing.JComboBox<String> Avalibility\_choosen\_dropdown;

private javax.swing.JLabel Avalibility\_choosen\_fieldname;

private javax.swing.JLabel Avalibility\_criteria\_fieldname;

private javax.swing.JTable Avalibility\_outputtable;

private javax.swing.JPanel Avalibility\_panel\_0;

private javax.swing.JPanel Avalibility\_panel\_1;

private javax.swing.JPanel Avalibility\_panel\_2;

private javax.swing.JPanel Avalibility\_panel\_3;

private javax.swing.JTextField CriteriaTextField;

private javax.swing.JButton Okay\_button;

private javax.swing.JButton Search\_button;

private javax.swing.JButton goback;

private javax.swing.JComboBox<String> jComboBox1;

private javax.swing.JMenuItem jMenuItem1;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTextField jTextField1;

private javax.swing.JLabel title;

// End of variables declaration

}

**Bookform.Java**

package My\_Forms;

import javax.swing.JOptionPane;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JFrame;

import javax.swing.table.DefaultTableModel;

public class Booksform extends javax.swing.JFrame {

/\*\*

\* Creates new form Booksform

\*/

public ConnectDb dbconnect = new ConnectDb();

public Booksform() {

initComponents();

this.setLocationRelativeTo(null);

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from book order by id";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String id = String.valueOf(rs.getInt("id"));

String name = rs.getString("name");

String genre = rs.getString("genre");

String publisher = rs.getString("publisher");

String author = rs.getString("author");

String level = String.valueOf(rs.getInt("level"));

String tbData[] = {id,name,genre,publisher,author,level};

DefaultTableModel tblmodle = (DefaultTableModel)Book\_outputtable.getModel();

tblmodle.addRow(tbData);

}

rs.close();

} catch (Exception e) {

}

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

Book\_jpanel\_0 = new javax.swing.JPanel();

goback = new javax.swing.JButton();

title = new javax.swing.JLabel();

Book\_jpanel\_1 = new javax.swing.JPanel();

Book\_id\_fieldname = new javax.swing.JLabel();

Book\_id\_fieldtext = new javax.swing.JTextField();

Book\_name\_fieldname = new javax.swing.JLabel();

Book\_name\_fieldtext = new javax.swing.JTextField();

Book\_level\_fieldname = new javax.swing.JLabel();

Book\_level\_fieldtext = new javax.swing.JTextField();

Book\_add = new javax.swing.JButton();

Book\_genre\_fieldname = new javax.swing.JLabel();

Book\_genre\_fieldtext = new javax.swing.JTextField();

Book\_publisher\_fieldname = new javax.swing.JLabel();

Book\_publisher\_fieldtext = new javax.swing.JTextField();

Book\_author\_fieldname = new javax.swing.JLabel();

Book\_author\_fieldtext = new javax.swing.JTextField();

Book\_update = new javax.swing.JButton();

Book\_remove = new javax.swing.JButton();

Book\_jpanel\_2 = new javax.swing.JPanel();

jScrollPane1 = new javax.swing.JScrollPane();

Book\_outputtable = new javax.swing.JTable();

Refresh = new javax.swing.JButton();

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

Book\_jpanel\_0.setBackground(java.awt.Color.white);

goback.setBackground(java.awt.Color.black);

goback.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

goback.setForeground(java.awt.Color.white);

goback.setText("Go Back");

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

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

gobackActionPerformed(evt);

}

});

title.setFont(new java.awt.Font("Arial", 0, 25)); // NOI18N

title.setText(" Books ");

Book\_jpanel\_1.setBackground(java.awt.Color.white);

Book\_jpanel\_1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

Book\_id\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Book\_id\_fieldname.setText("Book ID");

Book\_name\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Book\_name\_fieldname.setText("Book title ");

Book\_level\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Book\_level\_fieldname.setText("Book level");

Book\_add.setBackground(java.awt.Color.black);

Book\_add.setForeground(java.awt.Color.white);

Book\_add.setText("Add");

Book\_add.addActionListener(new java.awt.event.ActionListener() {

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

Book\_addActionPerformed(evt);

}

});

Book\_genre\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Book\_genre\_fieldname.setText("Book Genre");

Book\_publisher\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Book\_publisher\_fieldname.setText("Book Publisher");

Book\_author\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Book\_author\_fieldname.setText("Book Author");

Book\_update.setBackground(java.awt.Color.black);

Book\_update.setForeground(java.awt.Color.white);

Book\_update.setText("Update");

Book\_update.addActionListener(new java.awt.event.ActionListener() {

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

Book\_updateActionPerformed(evt);

}

});

Book\_remove.setBackground(java.awt.Color.black);

Book\_remove.setForeground(java.awt.Color.white);

Book\_remove.setText("Remove");

Book\_remove.addActionListener(new java.awt.event.ActionListener() {

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

Book\_removeActionPerformed(evt);

}

});

javax.swing.GroupLayout Book\_jpanel\_1Layout = new javax.swing.GroupLayout(Book\_jpanel\_1);

Book\_jpanel\_1.setLayout(Book\_jpanel\_1Layout);

Book\_jpanel\_1Layout.setHorizontalGroup(

Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, Book\_jpanel\_1Layout.createSequentialGroup()

.addGap(73, 73, 73)

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(Book\_id\_fieldname)

.addComponent(Book\_name\_fieldname)

.addComponent(Book\_level\_fieldname)

.addComponent(Book\_id\_fieldtext, javax.swing.GroupLayout.DEFAULT\_SIZE, 246, Short.MAX\_VALUE)

.addComponent(Book\_name\_fieldtext)

.addComponent(Book\_level\_fieldtext))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 166, Short.MAX\_VALUE)

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(Book\_author\_fieldtext)

.addGroup(Book\_jpanel\_1Layout.createSequentialGroup()

.addGap(3, 3, 3)

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(Book\_publisher\_fieldname)

.addComponent(Book\_genre\_fieldname)

.addComponent(Book\_genre\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 249, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addComponent(Book\_author\_fieldname)

.addComponent(Book\_publisher\_fieldtext))

.addGap(71, 71, 71))

.addGroup(Book\_jpanel\_1Layout.createSequentialGroup()

.addGap(178, 178, 178)

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

.addGap(85, 85, 85)

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

.addGap(64, 64, 64)

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

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

);

Book\_jpanel\_1Layout.setVerticalGroup(

Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Book\_jpanel\_1Layout.createSequentialGroup()

.addGap(37, 37, 37)

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(Book\_id\_fieldname)

.addComponent(Book\_genre\_fieldname))

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

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(Book\_id\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Book\_genre\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(Book\_name\_fieldname)

.addComponent(Book\_publisher\_fieldname))

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

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(Book\_name\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Book\_publisher\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(Book\_level\_fieldname)

.addComponent(Book\_author\_fieldname))

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

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(Book\_level\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Book\_author\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(31, 31, 31)

.addGroup(Book\_jpanel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(Book\_update)

.addComponent(Book\_add)

.addComponent(Book\_remove))

.addContainerGap())

);

Book\_jpanel\_2.setBackground(java.awt.Color.white);

Book\_jpanel\_2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

Book\_outputtable.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

},

new String [] {

"ID", "Name", "Genre", "Publisher", "Author", "Level"

}

));

Book\_outputtable.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

Book\_outputtableMouseClicked(evt);

}

});

jScrollPane1.setViewportView(Book\_outputtable);

Refresh.setBackground(java.awt.Color.black);

Refresh.setForeground(java.awt.Color.white);

Refresh.setText("Refresh");

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

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

RefreshActionPerformed(evt);

}

});

javax.swing.GroupLayout Book\_jpanel\_2Layout = new javax.swing.GroupLayout(Book\_jpanel\_2);

Book\_jpanel\_2.setLayout(Book\_jpanel\_2Layout);

Book\_jpanel\_2Layout.setHorizontalGroup(

Book\_jpanel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Book\_jpanel\_2Layout.createSequentialGroup()

.addGap(60, 60, 60)

.addGroup(Book\_jpanel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

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

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 683, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(65, Short.MAX\_VALUE))

);

Book\_jpanel\_2Layout.setVerticalGroup(

Book\_jpanel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Book\_jpanel\_2Layout.createSequentialGroup()

.addContainerGap()

.addComponent(Refresh)

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

.addComponent(jScrollPane1, javax.swing.GroupLayout.DEFAULT\_SIZE, 187, Short.MAX\_VALUE)

.addGap(18, 18, 18))

);

javax.swing.GroupLayout Book\_jpanel\_0Layout = new javax.swing.GroupLayout(Book\_jpanel\_0);

Book\_jpanel\_0.setLayout(Book\_jpanel\_0Layout);

Book\_jpanel\_0Layout.setHorizontalGroup(

Book\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Book\_jpanel\_0Layout.createSequentialGroup()

.addGap(49, 49, 49)

.addGroup(Book\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Book\_jpanel\_0Layout.createSequentialGroup()

.addGroup(Book\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(Book\_jpanel\_1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(Book\_jpanel\_2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addGap(75, 75, 75))

.addGroup(Book\_jpanel\_0Layout.createSequentialGroup()

.addComponent(goback, javax.swing.GroupLayout.PREFERRED\_SIZE, 125, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(191, 191, 191)

.addComponent(title, javax.swing.GroupLayout.PREFERRED\_SIZE, 210, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

Book\_jpanel\_0Layout.setVerticalGroup(

Book\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Book\_jpanel\_0Layout.createSequentialGroup()

.addContainerGap()

.addGroup(Book\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

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

.addComponent(goback, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addComponent(Book\_jpanel\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(Book\_jpanel\_2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(Book\_jpanel\_0, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

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

.addGroup(layout.createSequentialGroup()

.addComponent(Book\_jpanel\_0, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

Dashboardform Dashform = new Dashboardform();

Dashform.setVisible(true);

this.setVisible(false);

}

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

// TODO add your handling code here:

try {

DefaultTableModel model = (DefaultTableModel) Book\_outputtable.getModel();

model.setRowCount(0);

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from book order by id";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String id = String.valueOf(rs.getInt("id"));

String name = rs.getString("name");

String genre = rs.getString("genre");

String publisher = rs.getString("publisher");

String author = rs.getString("author");

String level = String.valueOf(rs.getInt("level"));

String tbData[] = {id,name,genre,publisher,author,level};

DefaultTableModel tblmodle = (DefaultTableModel)Book\_outputtable.getModel();

tblmodle.addRow(tbData);

}

rs.close();

} catch (Exception e) {

}

}

private void Book\_outputtableMouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

DefaultTableModel tb = (DefaultTableModel)Book\_outputtable.getModel();

String tbid = tb.getValueAt(Book\_outputtable.getSelectedRow(), 0).toString();

String tbname = tb.getValueAt(Book\_outputtable.getSelectedRow(), 1).toString();

String tbgenre = tb.getValueAt(Book\_outputtable.getSelectedRow(), 2).toString();

String tbpublisher = tb.getValueAt(Book\_outputtable.getSelectedRow(), 3).toString();

String tbauthor = tb.getValueAt(Book\_outputtable.getSelectedRow(), 4).toString();

String tblevel = tb.getValueAt(Book\_outputtable.getSelectedRow(), 5).toString();

Book\_id\_fieldtext.setText(tbid);

Book\_name\_fieldtext.setText(tbname);

Book\_genre\_fieldtext.setText(tbgenre);

Book\_publisher\_fieldtext.setText(tbpublisher);

Book\_author\_fieldtext.setText(tbauthor);

Book\_level\_fieldtext.setText(tblevel);

}

private void Book\_removeActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if ( Book\_id\_fieldtext.getText().isEmpty() || Book\_name\_fieldtext.getText().isEmpty() || Book\_level\_fieldtext.getText().isEmpty()|| Book\_genre\_fieldtext.getText().isEmpty() || Book\_publisher\_fieldtext.getText().isEmpty()|| Book\_author\_fieldtext.getText().isEmpty() ){

JOptionPane.showMessageDialog(new JFrame(), "Choose a value from the table to be deleted.", "Message" , JOptionPane.INFORMATION\_MESSAGE);

}else{

int result = JOptionPane.showConfirmDialog(Book\_jpanel\_0,"Are you Sure? You want to Delete?", "Books form",

JOptionPane.YES\_NO\_OPTION,

JOptionPane.QUESTION\_MESSAGE);

if(result == JOptionPane.YES\_OPTION){

try{

String sql = "Delete from book where id =?";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.setInt(1, Integer.parseInt(Book\_id\_fieldtext.getText()));

ps.execute();

JOptionPane.showMessageDialog(null, "Deleted successfully!! Click refresh to see changes");

Book\_id\_fieldtext.setText("");

Book\_name\_fieldtext.setText("");

Book\_level\_fieldtext.setText("");

Book\_genre\_fieldtext.setText("");

Book\_publisher\_fieldtext.setText("");

Book\_author\_fieldtext.setText("");

}

catch(Exception e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

}

}

private void Book\_updateActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if ( Book\_id\_fieldtext.getText().isEmpty() || Book\_name\_fieldtext.getText().isEmpty() || Book\_level\_fieldtext.getText().isEmpty()|| Book\_genre\_fieldtext.getText().isEmpty() || Book\_publisher\_fieldtext.getText().isEmpty()|| Book\_author\_fieldtext.getText().isEmpty() ){

JOptionPane.showMessageDialog(new JFrame(), "Choose a value from the table to be updated.", "Message" , JOptionPane.INFORMATION\_MESSAGE);

}else{

try{

String sql = "Update book set name = ?,genre = ?, publisher = ?, author = ?, level = ? where id =?";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.setString(1, Book\_name\_fieldtext.getText());

ps.setString(2, Book\_genre\_fieldtext.getText());

ps.setString(3, Book\_publisher\_fieldtext.getText());

ps.setString(4, Book\_author\_fieldtext.getText());

ps.setInt(5, Integer.parseInt(Book\_level\_fieldtext.getText()));

ps.setInt(6, Integer.parseInt(Book\_id\_fieldtext.getText()));

ps.execute();

JOptionPane.showMessageDialog(null, "Updated successfully!! Click refresh to see changes");

Book\_id\_fieldtext.setText("");

Book\_name\_fieldtext.setText("");

Book\_level\_fieldtext.setText("");

Book\_genre\_fieldtext.setText("");

Book\_publisher\_fieldtext.setText("");

Book\_author\_fieldtext.setText("");

}

catch(Exception e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

}

private void Book\_addActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if ( Book\_id\_fieldtext.getText().isEmpty() || Book\_name\_fieldtext.getText().isEmpty() || Book\_level\_fieldtext.getText().isEmpty()|| Book\_genre\_fieldtext.getText().isEmpty() || Book\_publisher\_fieldtext.getText().isEmpty()|| Book\_author\_fieldtext.getText().isEmpty() ){

JOptionPane.showMessageDialog(new JFrame(), "The fields cannot be left blank.", "Message" , JOptionPane.INFORMATION\_MESSAGE);

}else{

try{

String sql = "Insert into book" + "(id,name,genre,publisher,author,level,issued)" + "values(?,?,?,?,?,?,?)";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.setInt(1, Integer.parseInt(Book\_id\_fieldtext.getText()));

ps.setString(2, Book\_name\_fieldtext.getText());

ps.setString(3, Book\_genre\_fieldtext.getText());

ps.setString(4, Book\_publisher\_fieldtext.getText());

ps.setString(5, Book\_author\_fieldtext.getText());

ps.setInt(6, Integer.parseInt(Book\_level\_fieldtext.getText()));

ps.setString(7, "N");

ps.execute();

JOptionPane.showMessageDialog(null, "Book added successfully!! Click refresh to see changes");

Book\_id\_fieldtext.setText("");

Book\_name\_fieldtext.setText("");

Book\_level\_fieldtext.setText("");

Book\_genre\_fieldtext.setText("");

Book\_publisher\_fieldtext.setText("");

Book\_author\_fieldtext.setText("");

}

catch(Exception e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

}

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton Book\_add;

private javax.swing.JLabel Book\_author\_fieldname;

private javax.swing.JTextField Book\_author\_fieldtext;

private javax.swing.JLabel Book\_genre\_fieldname;

private javax.swing.JTextField Book\_genre\_fieldtext;

private javax.swing.JLabel Book\_id\_fieldname;

private javax.swing.JTextField Book\_id\_fieldtext;

private javax.swing.JPanel Book\_jpanel\_0;

private javax.swing.JPanel Book\_jpanel\_1;

private javax.swing.JPanel Book\_jpanel\_2;

private javax.swing.JLabel Book\_level\_fieldname;

private javax.swing.JTextField Book\_level\_fieldtext;

private javax.swing.JLabel Book\_name\_fieldname;

private javax.swing.JTextField Book\_name\_fieldtext;

private javax.swing.JTable Book\_outputtable;

private javax.swing.JLabel Book\_publisher\_fieldname;

private javax.swing.JTextField Book\_publisher\_fieldtext;

private javax.swing.JButton Book\_remove;

private javax.swing.JButton Book\_update;

private javax.swing.JButton Refresh;

private javax.swing.JButton goback;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JLabel title;

// End of variables declaration

}

**Bookinventory.Java**

package My\_Forms;

import java.sql.PreparedStatement;

import java.sql.\*;

import java.util.Arrays;

import javax.swing.JOptionPane;

import javax.swing.JTextField;

import java.lang.Math;

import javax.swing.table.DefaultTableModel;

import java.time.LocalDate;

public class Booksinventory extends javax.swing.JFrame {

/\*\*

\* Creates new form Booksinventory

\*/

public ConnectDb dbconnect = new ConnectDb();

public Booksinventory() {

initComponents();

this.setLocationRelativeTo(null);

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select id from student";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

inventory\_student\_id\_dropdown.addItem(rs.getString(1));

}

rs.close();

} catch (Exception e) {

}

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select id from book";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

inventory\_book\_id\_dropdown.addItem(rs.getString(1));

}

rs.close();

} catch (Exception e) {

}

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from inventory where issued = 'Y' ";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String ids = String.valueOf(rs.getInt("ids"));

String idb = String.valueOf(rs.getInt("idb"));

String title = rs.getString("title");

String name = rs.getString("name");

String datei = rs.getString("datei");

String dater = rs.getString("dater");

String tbData[] = {ids,idb,title,name,datei,dater};

DefaultTableModel tblmodle = (DefaultTableModel)inventory\_outputtable.getModel();

tblmodle.addRow(tbData);

}

rs.close();

} catch (Exception e) {

}

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jScrollPane1 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

jCalendar1 = new com.toedter.calendar.JCalendar();

jDateChooser1 = new com.toedter.calendar.JDateChooser();

jScrollPane2 = new javax.swing.JScrollPane();

jTable2 = new javax.swing.JTable();

jScrollPane3 = new javax.swing.JScrollPane();

jTable3 = new javax.swing.JTable();

jPopupMenu1 = new javax.swing.JPopupMenu();

Inventory\_panel\_0 = new javax.swing.JPanel();

jLabel1 = new javax.swing.JLabel();

goback = new javax.swing.JButton();

Inventory\_panel\_1 = new javax.swing.JPanel();

inventory\_book\_id\_fieldname = new javax.swing.JLabel();

inventory\_book\_title\_feildtext = new javax.swing.JTextField();

inventory\_book\_title\_fieldname = new javax.swing.JLabel();

inventory\_date\_issue\_fieldname = new javax.swing.JLabel();

inventory\_student\_id\_fieldname = new javax.swing.JLabel();

inventory\_student\_title\_fieldname = new javax.swing.JLabel();

jTextField3 = new javax.swing.JTextField();

inventory\_date\_return\_fieldname = new javax.swing.JLabel();

inventory\_issue = new javax.swing.JButton();

inventory\_return = new javax.swing.JButton();

inventory\_date\_issue\_datechooser = new com.toedter.calendar.JDateChooser();

inventory\_date\_return\_datechooser = new com.toedter.calendar.JDateChooser();

inventory\_book\_id\_dropdown = new javax.swing.JComboBox<>();

inventory\_student\_id\_dropdown = new javax.swing.JComboBox<>();

Inventory\_panel\_2 = new javax.swing.JPanel();

title\_1 = new javax.swing.JLabel();

jScrollPane4 = new javax.swing.JScrollPane();

inventory\_outputtable = new javax.swing.JTable();

booksissued\_button = new javax.swing.JButton();

overduebook\_button = new javax.swing.JButton();

jTable1.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"

}

));

jScrollPane1.setViewportView(jTable1);

jTable2.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"

}

));

jScrollPane2.setViewportView(jTable2);

jTable3.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{null, null, null, null},

{null, null, null, null},

{null, null, null, null},

{null, null, null, null}

},

new String [] {

"Title 1", "Title 2", "Title 3", "Title 4"

}

));

jScrollPane3.setViewportView(jTable3);

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

Inventory\_panel\_0.setBackground(java.awt.Color.white);

jLabel1.setFont(new java.awt.Font("Arial", 0, 25)); // NOI18N

jLabel1.setText(" Books Inventory");

goback.setBackground(java.awt.Color.black);

goback.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

goback.setForeground(java.awt.Color.white);

goback.setText("Go Back");

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

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

gobackActionPerformed(evt);

}

});

Inventory\_panel\_1.setBackground(java.awt.Color.white);

Inventory\_panel\_1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

inventory\_book\_id\_fieldname.setFont(new java.awt.Font("Arial", 0, 16)); // NOI18N

inventory\_book\_id\_fieldname.setText("Book ID");

inventory\_book\_title\_fieldname.setText("Book Title");

inventory\_date\_issue\_fieldname.setFont(new java.awt.Font("Arial", 0, 16)); // NOI18N

inventory\_date\_issue\_fieldname.setText("Date of issue");

inventory\_student\_id\_fieldname.setFont(new java.awt.Font("Arial", 0, 16)); // NOI18N

inventory\_student\_id\_fieldname.setText("Student ID");

inventory\_student\_title\_fieldname.setFont(new java.awt.Font("Arial", 0, 16)); // NOI18N

inventory\_student\_title\_fieldname.setText("Student Name");

inventory\_date\_return\_fieldname.setText("Date of return");

inventory\_issue.setBackground(java.awt.Color.black);

inventory\_issue.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

inventory\_issue.setForeground(java.awt.Color.white);

inventory\_issue.setText("Issue");

inventory\_issue.addActionListener(new java.awt.event.ActionListener() {

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

inventory\_issueActionPerformed(evt);

}

});

inventory\_return.setBackground(java.awt.Color.black);

inventory\_return.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

inventory\_return.setForeground(java.awt.Color.white);

inventory\_return.setText("Return");

inventory\_return.addActionListener(new java.awt.event.ActionListener() {

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

inventory\_returnActionPerformed(evt);

}

});

inventory\_book\_id\_dropdown.addActionListener(new java.awt.event.ActionListener() {

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

inventory\_book\_id\_dropdownActionPerformed(evt);

}

});

inventory\_student\_id\_dropdown.addActionListener(new java.awt.event.ActionListener() {

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

inventory\_student\_id\_dropdownActionPerformed(evt);

}

});

javax.swing.GroupLayout Inventory\_panel\_1Layout = new javax.swing.GroupLayout(Inventory\_panel\_1);

Inventory\_panel\_1.setLayout(Inventory\_panel\_1Layout);

Inventory\_panel\_1Layout.setHorizontalGroup(

Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Inventory\_panel\_1Layout.createSequentialGroup()

.addGap(114, 114, 114)

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Inventory\_panel\_1Layout.createSequentialGroup()

.addGap(65, 65, 65)

.addComponent(inventory\_issue)

.addGap(178, 178, 178)

.addComponent(inventory\_return))

.addGroup(Inventory\_panel\_1Layout.createSequentialGroup()

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(inventory\_book\_id\_dropdown, 0, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(inventory\_date\_issue\_datechooser, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(inventory\_date\_issue\_fieldname)

.addComponent(inventory\_book\_title\_fieldname)

.addComponent(inventory\_book\_id\_fieldname)

.addComponent(inventory\_book\_title\_feildtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 206, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(53, 53, 53)

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(inventory\_student\_id\_fieldname)

.addComponent(inventory\_student\_title\_fieldname)

.addComponent(jTextField3)

.addComponent(inventory\_date\_return\_fieldname)

.addComponent(inventory\_date\_return\_datechooser, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(inventory\_student\_id\_dropdown, javax.swing.GroupLayout.PREFERRED\_SIZE, 213, javax.swing.GroupLayout.PREFERRED\_SIZE))))

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

);

Inventory\_panel\_1Layout.setVerticalGroup(

Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Inventory\_panel\_1Layout.createSequentialGroup()

.addContainerGap()

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(inventory\_book\_id\_fieldname)

.addComponent(inventory\_student\_id\_fieldname))

.addGap(14, 14, 14)

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(inventory\_book\_id\_dropdown, javax.swing.GroupLayout.PREFERRED\_SIZE, 28, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(inventory\_student\_id\_dropdown, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(inventory\_book\_title\_fieldname)

.addComponent(inventory\_student\_title\_fieldname))

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

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(inventory\_book\_title\_feildtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(inventory\_date\_issue\_fieldname)

.addComponent(inventory\_date\_return\_fieldname))

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

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(inventory\_date\_issue\_datechooser, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addGroup(Inventory\_panel\_1Layout.createSequentialGroup()

.addComponent(inventory\_date\_return\_datechooser, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

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

.addGroup(Inventory\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(inventory\_issue)

.addComponent(inventory\_return))

.addContainerGap())

);

Inventory\_panel\_2.setBackground(java.awt.Color.white);

Inventory\_panel\_2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

Inventory\_panel\_2.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

Inventory\_panel\_2MouseClicked(evt);

}

});

title\_1.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

title\_1.setText("List of books currently issued ");

inventory\_outputtable.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

},

new String [] {

"Student ID", "Book ID", "Book Title", "Student Name", "Date of issue ", "Date of Return"

}

));

inventory\_outputtable.getTableHeader().setReorderingAllowed(false);

inventory\_outputtable.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

inventory\_outputtableMouseClicked(evt);

}

});

jScrollPane4.setViewportView(inventory\_outputtable);

booksissued\_button.setBackground(java.awt.Color.black);

booksissued\_button.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

booksissued\_button.setForeground(java.awt.Color.white);

booksissued\_button.setText("Books issued");

booksissued\_button.addActionListener(new java.awt.event.ActionListener() {

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

booksissued\_buttonActionPerformed(evt);

}

});

overduebook\_button.setBackground(java.awt.Color.black);

overduebook\_button.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

overduebook\_button.setForeground(java.awt.Color.white);

overduebook\_button.setText("Overdue books");

overduebook\_button.addActionListener(new java.awt.event.ActionListener() {

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

overduebook\_buttonActionPerformed(evt);

}

});

javax.swing.GroupLayout Inventory\_panel\_2Layout = new javax.swing.GroupLayout(Inventory\_panel\_2);

Inventory\_panel\_2.setLayout(Inventory\_panel\_2Layout);

Inventory\_panel\_2Layout.setHorizontalGroup(

Inventory\_panel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Inventory\_panel\_2Layout.createSequentialGroup()

.addContainerGap()

.addComponent(title\_1)

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

.addComponent(overduebook\_button)

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

.addComponent(booksissued\_button)

.addGap(11, 11, 11))

.addGroup(Inventory\_panel\_2Layout.createSequentialGroup()

.addComponent(jScrollPane4, javax.swing.GroupLayout.PREFERRED\_SIZE, 725, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

Inventory\_panel\_2Layout.setVerticalGroup(

Inventory\_panel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Inventory\_panel\_2Layout.createSequentialGroup()

.addContainerGap()

.addGroup(Inventory\_panel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(title\_1)

.addComponent(booksissued\_button)

.addComponent(overduebook\_button))

.addGap(18, 18, 18)

.addComponent(jScrollPane4, javax.swing.GroupLayout.PREFERRED\_SIZE, 223, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(26, Short.MAX\_VALUE))

);

javax.swing.GroupLayout Inventory\_panel\_0Layout = new javax.swing.GroupLayout(Inventory\_panel\_0);

Inventory\_panel\_0.setLayout(Inventory\_panel\_0Layout);

Inventory\_panel\_0Layout.setHorizontalGroup(

Inventory\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Inventory\_panel\_0Layout.createSequentialGroup()

.addGap(31, 31, 31)

.addComponent(goback)

.addGap(107, 107, 107)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 312, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGroup(Inventory\_panel\_0Layout.createSequentialGroup()

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

.addGroup(Inventory\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(Inventory\_panel\_2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(Inventory\_panel\_1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addContainerGap(22, Short.MAX\_VALUE))

);

Inventory\_panel\_0Layout.setVerticalGroup(

Inventory\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(Inventory\_panel\_0Layout.createSequentialGroup()

.addContainerGap()

.addGroup(Inventory\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 44, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(goback))

.addGap(30, 30, 30)

.addComponent(Inventory\_panel\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(Inventory\_panel\_2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(Inventory\_panel\_0, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

layout.setVerticalGroup(

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

.addComponent(Inventory\_panel\_0, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

Dashboardform Dashform = new Dashboardform();

Dashform.setVisible(true);

this.setVisible(false);

}

private void inventory\_issueActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

try{

Statement st = dbconnect.librarycon.createStatement();

String spl = "Delete from overdue";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(spl);

ps.execute();

} catch(Exception e){

}

int row\_count = 0;

try{

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select ids from inventory where dater < '" + LocalDate.now() + "' and issued = 'Y'";

ResultSet rs = st.executeQuery(firstSql);

while(rs.next()){

row\_count++;

}

}

catch (Exception e) {}

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select ids from inventory where dater < '" + LocalDate.now() + "' and issued = 'Y'";

ResultSet rs = st.executeQuery(firstSql);

int[] OverdueArr = new int[row\_count];

int i=0;

while (rs.next()) {

OverdueArr[i] = rs.getInt("ids");

i++;

}

for (int m = 0; m < OverdueArr.length; m++){

for (int j = m + 1; j < OverdueArr.length; j++)

{

int tmp = 0;

if (OverdueArr[m] > OverdueArr[j])

{

tmp = OverdueArr[m];

OverdueArr[m] = OverdueArr[j];

OverdueArr[j] = tmp;

}

}

}

System.out.println(Arrays.toString(OverdueArr));

System.out.println(i);

int student\_id\_compare = Integer.parseInt(inventory\_student\_id\_dropdown.getSelectedItem().toString());

int first = 0;

int last=OverdueArr.length-1;

int found = -1;

int mid;

while( last> first && found == -1 ){

mid = (first + last)/2;

if ( OverdueArr[mid] < student\_id\_compare ){

first = mid + 1;

}else {

if ( student\_id\_compare < OverdueArr[mid]){

last = mid - 1;

}else{

found = 2 ;

}

}}

System.out.println(found);

if( found != -1){

java.sql.Date sqldate = new java.sql.Date(inventory\_date\_issue\_datechooser.getDate().getTime());

java.sql.Date sqldate1 = new java.sql.Date(inventory\_date\_return\_datechooser.getDate().getTime());

try{

String sql = "Insert into inventory" +"(name,title,issued,datei,dater,ids,idb)" + "values(?,?,?,?,?,?,?)";

// String sql = "Insert into inventory" +"(title,name,datei,dater,issued,ids,idb)" + "values(?,?,?,?,?,?,?)";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.setString(1, jTextField3.getText());

ps.setString(2, inventory\_book\_title\_feildtext.getText());

ps.setString(3,"Y");

ps.setDate(4,sqldate);

ps.setDate(5,sqldate1);

ps.setString(6, inventory\_student\_id\_dropdown.getSelectedItem().toString());

ps.setString(7, inventory\_book\_id\_dropdown.getSelectedItem().toString());

ps.execute();

JOptionPane.showMessageDialog(null, "Issued successfully!!");

inventory\_book\_title\_feildtext.setText("");

jTextField3.setText("");

((JTextField)inventory\_date\_issue\_datechooser.getDateEditor().getUiComponent()).setText("");

((JTextField)inventory\_date\_return\_datechooser.getDateEditor().getUiComponent()).setText("");

try {

String sql1 = "Update book set issued = ? where id =?";

ps = dbconnect.librarycon.prepareStatement(sql1);

ps.setString(1, "Y");

ps.setInt(2, Integer.valueOf(inventory\_book\_id\_dropdown.getSelectedItem().toString()));

ps.execute();

}

catch(Exception e){

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

catch(Exception e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}else{

JOptionPane.showMessageDialog(null, "The student ID - "+student\_id\_compare+"has an overdue book so the issue is unsucessful.");

}

rs.close();

} catch (Exception e) {

JOptionPane.showMessageDialog(null, e);

}

}

private void inventory\_returnActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

try{

String sql = "Update inventory set issued = ? where idb =?";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.setString(1, "N");

ps.setString(2, inventory\_book\_id\_dropdown.getSelectedItem().toString());

ps.execute();

JOptionPane.showMessageDialog(null, "Return successfully!!");

try {

String sql1 = "Update book set issued = ? where id =?";

ps = dbconnect.librarycon.prepareStatement(sql1);

ps.setString(1, "N");

ps.setInt(2, Integer.valueOf(inventory\_book\_id\_dropdown.getSelectedItem().toString()));

ps.execute();

}

catch(Exception e){

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

catch(Exception e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

private void inventory\_book\_id\_dropdownActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

try{

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select name from book where id = '"+inventory\_book\_id\_dropdown.getSelectedItem().toString()+"'";

ResultSet rs = st.executeQuery(firstSql);

while(rs.next()){

inventory\_book\_title\_feildtext.setText(rs.getString("name"));

}

}

catch(Exception e){

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

private void booksissued\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

title\_1.setText("List of books currently issued");

DefaultTableModel model = (DefaultTableModel) inventory\_outputtable.getModel();

model.setRowCount(0);

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from inventory where issued = 'Y' ";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String ids = String.valueOf(rs.getInt("ids"));

String idb = String.valueOf(rs.getInt("idb"));

String title = rs.getString("title");

String name = rs.getString("name");

String datei = rs.getString("datei");

String dater = rs.getString("dater");

String tbData[] = {ids,idb,title,name,datei,dater};

DefaultTableModel tblmodle = (DefaultTableModel)inventory\_outputtable.getModel();

tblmodle.addRow(tbData);

}

rs.close();

} catch (Exception e) {

}

}

private void Inventory\_panel\_2MouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

}

private void inventory\_outputtableMouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

DefaultTableModel tb = (DefaultTableModel)inventory\_outputtable.getModel();

String tbids = tb.getValueAt(inventory\_outputtable.getSelectedRow(), 0).toString();

String tbidb = tb.getValueAt(inventory\_outputtable.getSelectedRow(), 1).toString();

String tbtitle = tb.getValueAt(inventory\_outputtable.getSelectedRow(), 2).toString();

String tbname = tb.getValueAt(inventory\_outputtable.getSelectedRow(), 3).toString();

String tbdatei = tb.getValueAt(inventory\_outputtable.getSelectedRow(), 4).toString();

String tbdater = tb.getValueAt(inventory\_outputtable.getSelectedRow(), 5).toString();

inventory\_book\_id\_dropdown.setSelectedItem(tbidb);

inventory\_student\_id\_dropdown.setSelectedItem(tbids);

inventory\_book\_title\_feildtext.setText(tbtitle);

jTextField3.setText(tbname);

}

private void inventory\_student\_id\_dropdownActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

try{

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select name from student where id = '"+inventory\_student\_id\_dropdown.getSelectedItem().toString()+"'";

ResultSet rs = st.executeQuery(firstSql);

while(rs.next()){

jTextField3.setText(rs.getString("name"));

}

}

catch(Exception e){

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

private void overduebook\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

title\_1.setText("List of books currently overdue");

try {

DefaultTableModel model = (DefaultTableModel) inventory\_outputtable.getModel();

model.setRowCount(0);

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from inventory where dater < '" + LocalDate.now() + "' and issued = 'Y'";

System.out.println(firstSql);

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String ids = String.valueOf(rs.getInt("ids"));

String idb = String.valueOf(rs.getInt("idb"));

String title = rs.getString("title");

String name = rs.getString("name");

String datei = rs.getString("datei");

String dater = rs.getString("dater");

String tbData[] = {ids,idb,title,name, datei,dater};

DefaultTableModel tblmodle = (DefaultTableModel) inventory\_outputtable.getModel();

tblmodle.addRow(tbData);

}

rs.close();

} catch (Exception e) {

}

}

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

});

}

// Variables declaration - do not modify

private javax.swing.JPanel Inventory\_panel\_0;

private javax.swing.JPanel Inventory\_panel\_1;

private javax.swing.JPanel Inventory\_panel\_2;

private javax.swing.JButton booksissued\_button;

private javax.swing.JButton goback;

private javax.swing.JComboBox<String> inventory\_book\_id\_dropdown;

private javax.swing.JLabel inventory\_book\_id\_fieldname;

private javax.swing.JTextField inventory\_book\_title\_feildtext;

private javax.swing.JLabel inventory\_book\_title\_fieldname;

private com.toedter.calendar.JDateChooser inventory\_date\_issue\_datechooser;

private javax.swing.JLabel inventory\_date\_issue\_fieldname;

private com.toedter.calendar.JDateChooser inventory\_date\_return\_datechooser;

private javax.swing.JLabel inventory\_date\_return\_fieldname;

private javax.swing.JButton inventory\_issue;

private javax.swing.JTable inventory\_outputtable;

private javax.swing.JButton inventory\_return;

private javax.swing.JComboBox<String> inventory\_student\_id\_dropdown;

private javax.swing.JLabel inventory\_student\_id\_fieldname;

private javax.swing.JLabel inventory\_student\_title\_fieldname;

private com.toedter.calendar.JCalendar jCalendar1;

private com.toedter.calendar.JDateChooser jDateChooser1;

private javax.swing.JLabel jLabel1;

private javax.swing.JPopupMenu jPopupMenu1;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

private javax.swing.JScrollPane jScrollPane3;

private javax.swing.JScrollPane jScrollPane4;

private javax.swing.JTable jTable1;

private javax.swing.JTable jTable2;

private javax.swing.JTable jTable3;

private javax.swing.JTextField jTextField3;

private javax.swing.JButton overduebook\_button;

private javax.swing.JLabel title\_1;

// End of variables declaration

}

**Chart.Java**

package My\_Forms;

import java.util.Iterator;

import java.util.Map;

import java.util.Set;

import javax.swing.JFrame;

import org.jfree.chart.ChartFactory;

import org.jfree.chart.ChartPanel;

import org.jfree.chart.JFreeChart;

import org.jfree.chart.plot.PlotOrientation;

import org.jfree.data.category.CategoryDataset;

import org.jfree.data.category.DefaultCategoryDataset;

public class Chart extends JFrame{

private static final long serialVersionUID = 1L;

public Chart(Map<Integer, String> graph) {

CategoryDataset dataset = createDataset(graph);

JFreeChart chart=ChartFactory.createBarChart(

"Books read Chart",

"Month",

"Total Books read",

dataset,

PlotOrientation.VERTICAL,

true,true,false

);

ChartPanel panel=new ChartPanel(chart);

setContentPane(panel);

}

private CategoryDataset createDataset(Map<Integer, String> graph) {

Set set = graph.entrySet();

Iterator i = set.iterator();

DefaultCategoryDataset dataset = new DefaultCategoryDataset();

while (i.hasNext()) {

Map.Entry<Integer,String> me = (Map.Entry) i.next();

dataset.addValue(me.getKey(), "Total books read", me.getValue());

}

return dataset;

}

public static void main(String[] args) throws Exception {

}

}

**ConnectDB.Java**

package My\_Forms;

import java.sql.Connection;

import java.sql.DriverManager;

public class ConnectDb {

public Connection librarycon; a

{

try{

Class.forName("org.postgresql.Driver");

librarycon = DriverManager.getConnection("jdbc:postgresql://localhost:5432/postgres","postgres","root");

}

catch(Exception e){

System.out.println(e);

}

}

}

**DashboardForm.Java**

package My\_Forms;

public class Dashboardform extends javax.swing.JFrame {

/\*\*

\* Creates new form Dashboardform

\*/

public Dashboardform() {

initComponents();

this.setLocationRelativeTo(null);

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

dashboard\_jpanel\_0 = new javax.swing.JPanel();

title = new javax.swing.JLabel();

title\_1 = new javax.swing.JLabel();

logout = new javax.swing.JButton();

Books\_button = new javax.swing.JButton();

issue\_return\_button = new javax.swing.JButton();

avalibility\_button = new javax.swing.JButton();

student\_button = new javax.swing.JButton();

report\_button = new javax.swing.JButton();

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

dashboard\_jpanel\_0.setBackground(new java.awt.Color(255, 255, 255));

title.setFont(new java.awt.Font("Arial", 0, 30)); // NOI18N

title.setText("Welcome to digital library managmant");

title\_1.setFont(new java.awt.Font("Arial", 0, 25)); // NOI18N

title\_1.setText(" Main Menu");

title\_1.setToolTipText("");

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

logout.setForeground(java.awt.Color.white);

logout.setText("Logout");

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

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

logoutActionPerformed(evt);

}

});

Books\_button.setBackground(java.awt.Color.black);

Books\_button.setFont(new java.awt.Font("Arial", 0, 25)); // NOI18N

Books\_button.setForeground(java.awt.Color.white);

Books\_button.setText("Books");

Books\_button.addActionListener(new java.awt.event.ActionListener() {

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

Books\_buttonActionPerformed(evt);

}

});

issue\_return\_button.setBackground(java.awt.Color.black);

issue\_return\_button.setFont(new java.awt.Font("Arial", 0, 25)); // NOI18N

issue\_return\_button.setForeground(java.awt.Color.white);

issue\_return\_button.setText("Books Issue/Return");

issue\_return\_button.setActionCommand("Books issue/ return");

issue\_return\_button.addActionListener(new java.awt.event.ActionListener() {

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

issue\_return\_buttonActionPerformed(evt);

}

});

avalibility\_button.setBackground(java.awt.Color.black);

avalibility\_button.setFont(new java.awt.Font("Arial", 0, 25)); // NOI18N

avalibility\_button.setForeground(java.awt.Color.white);

avalibility\_button.setText("Books Availability");

avalibility\_button.addActionListener(new java.awt.event.ActionListener() {

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

avalibility\_buttonActionPerformed(evt);

}

});

student\_button.setBackground(java.awt.Color.black);

student\_button.setFont(new java.awt.Font("Arial", 0, 25)); // NOI18N

student\_button.setForeground(java.awt.Color.white);

student\_button.setText("Student Records");

student\_button.addActionListener(new java.awt.event.ActionListener() {

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

student\_buttonActionPerformed(evt);

}

});

report\_button.setBackground(java.awt.Color.black);

report\_button.setFont(new java.awt.Font("Arial", 0, 25)); // NOI18N

report\_button.setForeground(java.awt.Color.white);

report\_button.setText("Progress Report");

report\_button.addActionListener(new java.awt.event.ActionListener() {

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

report\_buttonActionPerformed(evt);

}

});

javax.swing.GroupLayout dashboard\_jpanel\_0Layout = new javax.swing.GroupLayout(dashboard\_jpanel\_0);

dashboard\_jpanel\_0.setLayout(dashboard\_jpanel\_0Layout);

dashboard\_jpanel\_0Layout.setHorizontalGroup(

dashboard\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(dashboard\_jpanel\_0Layout.createSequentialGroup()

.addContainerGap(150, Short.MAX\_VALUE)

.addGroup(dashboard\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, dashboard\_jpanel\_0Layout.createSequentialGroup()

.addComponent(title\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, 285, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(229, 229, 229))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, dashboard\_jpanel\_0Layout.createSequentialGroup()

.addGroup(dashboard\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(dashboard\_jpanel\_0Layout.createSequentialGroup()

.addComponent(title, javax.swing.GroupLayout.PREFERRED\_SIZE, 529, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(28, 28, 28))

.addGroup(dashboard\_jpanel\_0Layout.createSequentialGroup()

.addGroup(dashboard\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING, false)

.addComponent(issue\_return\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

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

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

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

.addComponent(report\_button, javax.swing.GroupLayout.Alignment.LEADING, javax.swing.GroupLayout.PREFERRED\_SIZE, 506, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(38, 38, 38)))

.addComponent(logout, javax.swing.GroupLayout.PREFERRED\_SIZE, 90, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())))

);

dashboard\_jpanel\_0Layout.setVerticalGroup(

dashboard\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(dashboard\_jpanel\_0Layout.createSequentialGroup()

.addContainerGap()

.addGroup(dashboard\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(title, javax.swing.GroupLayout.PREFERRED\_SIZE, 71, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(logout))

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

.addComponent(title\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, 56, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(Books\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 63, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(29, 29, 29)

.addComponent(issue\_return\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 63, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(26, 26, 26)

.addComponent(avalibility\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 63, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(27, 27, 27)

.addComponent(student\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 63, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(27, 27, 27)

.addComponent(report\_button, javax.swing.GroupLayout.DEFAULT\_SIZE, 63, Short.MAX\_VALUE)

.addGap(51, 51, 51))

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(dashboard\_jpanel\_0, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

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

.addComponent(dashboard\_jpanel\_0, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

private void Books\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

Booksform bookform = new Booksform();

bookform.setVisible(true);

this.setVisible(false);

}

private void issue\_return\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here

Booksinventory bookinventoryform = new Booksinventory();

bookinventoryform.setVisible(true);

this.setVisible(false);

}

private void avalibility\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

BooksAvalibilityForm bookavalibilityform = new BooksAvalibilityForm();

bookavalibilityform.setVisible(true);

this.setVisible(false);

}

private void student\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

Studentform studentform = new Studentform();

studentform.setVisible(true);

this.setVisible(false);

}

private void report\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

Progressreport progressreportform = new Progressreport();

progressreportform.setVisible(true);

this.setVisible(false);

}

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

// TODO add your handling code here:

Loginform loginform = new Loginform();

loginform.setVisible(true);

this.setVisible(false);

}

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton Books\_button;

private javax.swing.JButton avalibility\_button;

private javax.swing.JPanel dashboard\_jpanel\_0;

private javax.swing.JButton issue\_return\_button;

private javax.swing.JButton logout;

private javax.swing.JButton report\_button;

private javax.swing.JButton student\_button;

private javax.swing.JLabel title;

private javax.swing.JLabel title\_1;

// End of variables declaration

}

**Loginform.Java**

package My\_Forms;

import javax.swing.JButton;

import javax.swing.JLabel;

import javax.swing.JOptionPane;

import javax.swing.JTextField;

public class Loginform extends javax.swing.JFrame {

private static final long serialVersionUID = 1L;

private JButton loginButton;

private JTextField username;

private JLabel userLabel;

public Loginform() {

initComponents();

this.setLocationRelativeTo(null);

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jComboBox1 = new javax.swing.JComboBox<>();

inventory\_jpanel\_0 = new javax.swing.JPanel();

title = new javax.swing.JLabel();

login\_username\_field = new javax.swing.JLabel();

login\_username\_fieldtext = new javax.swing.JTextField();

login\_password\_field = new javax.swing.JLabel();

inventory\_login\_button = new javax.swing.JButton();

login\_password\_fieldtext = new javax.swing.JTextField();

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

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

setBackground(new java.awt.Color(255, 255, 255));

setForeground(java.awt.Color.white);

inventory\_jpanel\_0.setBackground(new java.awt.Color(255, 255, 255));

title.setFont(new java.awt.Font("Arial", 0, 30)); // NOI18N

title.setText("Digital Library managment ");

login\_username\_field.setFont(new java.awt.Font("Arial", 0, 14)); // NOI18N

login\_username\_field.setText("Enter username");

login\_username\_fieldtext.addActionListener(new java.awt.event.ActionListener() {

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

login\_username\_fieldtextActionPerformed(evt);

}

});

login\_password\_field.setFont(new java.awt.Font("Arial", 0, 14)); // NOI18N

login\_password\_field.setText("Enter password");

inventory\_login\_button.setBackground(new java.awt.Color(0, 0, 0));

inventory\_login\_button.setForeground(java.awt.Color.white);

inventory\_login\_button.setText("Login");

inventory\_login\_button.setCursor(new java.awt.Cursor(java.awt.Cursor.HAND\_CURSOR));

inventory\_login\_button.addActionListener(new java.awt.event.ActionListener() {

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

inventory\_login\_buttonActionPerformed(evt);

}

});

javax.swing.GroupLayout inventory\_jpanel\_0Layout = new javax.swing.GroupLayout(inventory\_jpanel\_0);

inventory\_jpanel\_0.setLayout(inventory\_jpanel\_0Layout);

inventory\_jpanel\_0Layout.setHorizontalGroup(

inventory\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, inventory\_jpanel\_0Layout.createSequentialGroup()

.addContainerGap(89, Short.MAX\_VALUE)

.addComponent(title, javax.swing.GroupLayout.PREFERRED\_SIZE, 363, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(82, 82, 82))

.addGroup(inventory\_jpanel\_0Layout.createSequentialGroup()

.addGroup(inventory\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(inventory\_jpanel\_0Layout.createSequentialGroup()

.addGap(169, 169, 169)

.addComponent(inventory\_login\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 156, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(inventory\_jpanel\_0Layout.createSequentialGroup()

.addGap(51, 51, 51)

.addGroup(inventory\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(login\_password\_field, javax.swing.GroupLayout.PREFERRED\_SIZE, 122, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(login\_username\_field, javax.swing.GroupLayout.PREFERRED\_SIZE, 157, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(login\_username\_fieldtext, javax.swing.GroupLayout.DEFAULT\_SIZE, 392, Short.MAX\_VALUE)

.addComponent(login\_password\_fieldtext))))

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

);

inventory\_jpanel\_0Layout.setVerticalGroup(

inventory\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(inventory\_jpanel\_0Layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(title, javax.swing.GroupLayout.PREFERRED\_SIZE, 73, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(53, 53, 53)

.addComponent(login\_username\_field, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(login\_username\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(login\_password\_field, javax.swing.GroupLayout.PREFERRED\_SIZE, 49, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(login\_password\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 51, Short.MAX\_VALUE)

.addComponent(inventory\_login\_button, javax.swing.GroupLayout.PREFERRED\_SIZE, 41, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(21, 21, 21))

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(inventory\_jpanel\_0, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

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

.addComponent(inventory\_jpanel\_0, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

pack();

}// </editor-fold>

private void login\_username\_fieldtextActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void inventory\_login\_buttonActionPerformed(java.awt.event.ActionEvent evt) {

if (login\_username\_fieldtext.getText().equals("kamna")&& login\_password\_fieldtext.getText().equals("hello")){

Dashboardform frm = new Dashboardform();

frm.setVisible(true);

this.setVisible(false);

}

else if(login\_username\_fieldtext.getText().equals("") && login\_password\_fieldtext.getText().equals(""))

{

JOptionPane.showMessageDialog(null,"Enter username and password");

}

else{

JOptionPane.showMessageDialog(null,"Incorrect username and password");

}

}

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

});

}

// Variables declaration - do not modify

private javax.swing.JPanel inventory\_jpanel\_0;

private javax.swing.JButton inventory\_login\_button;

private javax.swing.JComboBox<String> jComboBox1;

private javax.swing.JLabel login\_password\_field;

private javax.swing.JTextField login\_password\_fieldtext;

private javax.swing.JLabel login\_username\_field;

private javax.swing.JTextField login\_username\_fieldtext;

private javax.swing.JLabel title;

// End of variables declaration

}

**Progressreport.java**

package My\_Forms;

import java.awt.event.ActionEvent;

import java.lang.reflect.InvocationTargetException;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.text.SimpleDateFormat;

import java.util.HashMap;

import net.sf.jasperreports.engine.\*;

import net.sf.jasperreports.view.JasperViewer;

import java.util.Map;

import java.util.logging.Logger;

import javax.swing.JOptionPane;

import javax.swing.JScrollPane;

import javax.swing.WindowConstants;

import javax.swing.table.DefaultTableModel;

public class Progressreport extends javax.swing.JFrame {

/\*\*

\* Creates new form

\*/

Statement st = null;

ResultSet rs = null;

Map<Integer, String> graph = new HashMap<Integer, String>();

public ConnectDb dbconnect = new ConnectDb();

JScrollPane jScrollPanel = new JScrollPane();

private static final String ISO\_8601\_DATE\_FORMAT\_WITH\_MILLIS = "yyyy-MM-dd";

static final Logger logger = Logger.getLogger(Progressreport.class.getName());

public Progressreport() {

initComponents();

this.setLocationRelativeTo(null);

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select id from student";

rs = st.executeQuery(firstSql);

while (rs.next()) {

report\_id\_dropdown.addItem(rs.getString(1));

}

rs.close();

} catch (Exception e) {

}

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

report\_panel\_0 = new javax.swing.JPanel();

goback = new javax.swing.JButton();

title = new javax.swing.JLabel();

report\_id\_fieldname = new javax.swing.JLabel();

report\_id\_dropdown = new javax.swing.JComboBox<>();

report\_start\_date\_fieldname = new javax.swing.JLabel();

report\_end\_date\_fieldname = new javax.swing.JLabel();

report\_search = new javax.swing.JButton();

report\_panel\_1 = new javax.swing.JPanel();

title\_1 = new javax.swing.JLabel();

Reportmainbutton = new javax.swing.JButton();

jScrollPane1 = new javax.swing.JScrollPane();

report\_outputtable = new javax.swing.JTable();

report\_graph = new javax.swing.JButton();

report\_start\_date\_datechooser = new com.toedter.calendar.JDateChooser();

report\_end\_date\_datechooser = new com.toedter.calendar.JDateChooser();

report\_name\_fieldtext = new javax.swing.JTextField();

report\_name\_fieldname = new javax.swing.JLabel();

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

report\_panel\_0.setBackground(java.awt.Color.white);

goback.setBackground(java.awt.Color.black);

goback.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

goback.setForeground(java.awt.Color.white);

goback.setText("Go Back");

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

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

gobackActionPerformed(evt);

}

});

title.setFont(new java.awt.Font("Arial", 0, 25)); // NOI18N

title.setText("Progress Report");

report\_id\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

report\_id\_fieldname.setText("Choose the student ID");

report\_id\_dropdown.setFont(new java.awt.Font("Arial", 0, 16)); // NOI18N

report\_id\_dropdown.addActionListener(new java.awt.event.ActionListener() {

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

report\_id\_dropdownActionPerformed(evt);

}

});

report\_start\_date\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

report\_start\_date\_fieldname.setText("Start Date");

report\_end\_date\_fieldname.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

report\_end\_date\_fieldname.setText("End Date");

report\_search.setBackground(java.awt.Color.black);

report\_search.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

report\_search.setForeground(java.awt.Color.white);

report\_search.setText("Search");

report\_search.addActionListener(new java.awt.event.ActionListener() {

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

report\_searchActionPerformed(evt);

}

});

report\_panel\_1.setBackground(java.awt.Color.white);

report\_panel\_1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

title\_1.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

title\_1.setText("Books Read Table and Graph");

Reportmainbutton.setBackground(java.awt.Color.black);

Reportmainbutton.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Reportmainbutton.setForeground(java.awt.Color.white);

Reportmainbutton.setText("Download Report");

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

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

ReportmainbuttonActionPerformed(evt);

}

});

report\_outputtable.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

},

new String [] {

"Book name", "Date of issue", "Date of return"

}

));

jScrollPane1.setViewportView(report\_outputtable);

report\_graph.setBackground(java.awt.Color.black);

report\_graph.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

report\_graph.setForeground(java.awt.Color.white);

report\_graph.setText("Graph");

report\_graph.addActionListener(new java.awt.event.ActionListener() {

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

report\_graphActionPerformed(evt);

}

});

javax.swing.GroupLayout report\_panel\_1Layout = new javax.swing.GroupLayout(report\_panel\_1);

report\_panel\_1.setLayout(report\_panel\_1Layout);

report\_panel\_1Layout.setHorizontalGroup(

report\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(report\_panel\_1Layout.createSequentialGroup()

.addGap(19, 19, 19)

.addComponent(jScrollPane1)

.addContainerGap())

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, report\_panel\_1Layout.createSequentialGroup()

.addContainerGap(165, Short.MAX\_VALUE)

.addGroup(report\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, report\_panel\_1Layout.createSequentialGroup()

.addComponent(title\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, 326, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(71, 71, 71)

.addComponent(report\_graph, javax.swing.GroupLayout.PREFERRED\_SIZE, 117, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(25, 25, 25))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, report\_panel\_1Layout.createSequentialGroup()

.addComponent(Reportmainbutton)

.addGap(42, 42, 42))))

);

report\_panel\_1Layout.setVerticalGroup(

report\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(report\_panel\_1Layout.createSequentialGroup()

.addContainerGap()

.addGroup(report\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(title\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, 41, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(report\_graph))

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

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 243, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(Reportmainbutton)

.addGap(201, 201, 201))

);

report\_name\_fieldname.setText("Student Name");

javax.swing.GroupLayout report\_panel\_0Layout = new javax.swing.GroupLayout(report\_panel\_0);

report\_panel\_0.setLayout(report\_panel\_0Layout);

report\_panel\_0Layout.setHorizontalGroup(

report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGap(69, 69, 69)

.addComponent(report\_id\_fieldname))

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGap(38, 38, 38)

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(report\_name\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 259, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(report\_id\_dropdown, javax.swing.GroupLayout.PREFERRED\_SIZE, 259, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGap(123, 123, 123)

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(report\_start\_date\_fieldname)

.addComponent(report\_end\_date\_fieldname))

.addGap(41, 41, 41)

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(report\_start\_date\_datechooser, javax.swing.GroupLayout.DEFAULT\_SIZE, 145, Short.MAX\_VALUE)

.addComponent(report\_end\_date\_datechooser, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGap(27, 27, 27)

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(report\_panel\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addComponent(goback, javax.swing.GroupLayout.PREFERRED\_SIZE, 117, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(145, 145, 145)

.addComponent(title, javax.swing.GroupLayout.PREFERRED\_SIZE, 202, javax.swing.GroupLayout.PREFERRED\_SIZE))))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, report\_panel\_0Layout.createSequentialGroup()

.addContainerGap()

.addComponent(report\_search, javax.swing.GroupLayout.PREFERRED\_SIZE, 117, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(19, 19, 19)))

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGap(115, 115, 115)

.addComponent(report\_name\_fieldname)))

.addContainerGap(30, Short.MAX\_VALUE))

);

report\_panel\_0Layout.setVerticalGroup(

report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGap(47, 47, 47)

.addComponent(goback))

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addContainerGap()

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

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGap(40, 40, 40)

.addComponent(report\_id\_fieldname))

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGap(21, 21, 21)

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(report\_start\_date\_datechooser, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(report\_start\_date\_fieldname))))

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

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(report\_panel\_0Layout.createSequentialGroup()

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(report\_end\_date\_fieldname)

.addComponent(report\_id\_dropdown, javax.swing.GroupLayout.PREFERRED\_SIZE, 34, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addComponent(report\_name\_fieldname)

.addGap(1, 1, 1)

.addGroup(report\_panel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(report\_search)

.addComponent(report\_name\_fieldtext, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(31, 31, 31)

.addComponent(report\_panel\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, 378, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(report\_end\_date\_datechooser, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(49, Short.MAX\_VALUE))

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(report\_panel\_0, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

layout.setVerticalGroup(

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

.addComponent(report\_panel\_0, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

Dashboardform Dashform = new Dashboardform();

Dashform.setVisible(true);

this.setVisible(false);

}

private void report\_id\_dropdownActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

try{

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select name from student where id = '"+report\_id\_dropdown.getSelectedItem().toString()+"'";

ResultSet rs = st.executeQuery(firstSql);

while(rs.next()){

report\_name\_fieldtext.setText(rs.getString("name"));

}

}

catch(Exception e){

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

private void report\_searchActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

DefaultTableModel model = (DefaultTableModel) report\_outputtable.getModel();

model.setRowCount(0);

java.sql.Date sqldate = new java.sql.Date(report\_start\_date\_datechooser.getDate().getTime());

java.sql.Date sqldate1 = new java.sql.Date(report\_end\_date\_datechooser.getDate().getTime());

SimpleDateFormat format = new SimpleDateFormat("dd/MM/yyyy");

try{

st = dbconnect.librarycon.createStatement();

String sql = "select title,datei,dater from inventory " + "where datei " + "between '" + sqldate

+ "' and '" + sqldate1 + "' and ids ='" + report\_id\_dropdown.getModel().getSelectedItem() + "'";

ResultSet rs = st.executeQuery(sql);

while (rs.next()) {

String title = rs.getString("title");

String datei = rs.getString("datei");

System.out.println(datei);

String dater = rs.getString("dater");

String tbData[] = {title,datei,dater};

DefaultTableModel tblmodle = (DefaultTableModel)report\_outputtable.getModel();

tblmodle.addRow(tbData);

}

}

catch (SQLException e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

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

// TODO add your handling code here:

SimpleDateFormat format = new SimpleDateFormat("dd/MM/yyy");

try{

String sql = "Delete from report";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.execute();

}

catch (SQLException e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

DefaultTableModel tblModel = (DefaultTableModel) report\_outputtable.getModel();

try{

for(int i=0;i<tblModel.getRowCount();i++){

String title = tblModel.getValueAt(i, 0).toString();

String datei = String.valueOf(tblModel.getValueAt(i, 1));

String dater = String.valueOf(tblModel.getValueAt(i, 2));

String sql = "Insert into report (title,datei,dater) values(?,?,?) ";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.setString(1, title);

ps.setString(2, datei);

ps.setString(3, dater);

ps.execute();

}}

catch (SQLException e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

try{

String Report = "C:\\Users\\VAIBHAV\\Documents\\NetBeansProjects\\library\_mangament\_software\\src\\main\\java\\My\_Forms\\ProgressReport.jrxml";

JasperReport jr = JasperCompileManager.compileReport(Report);

JasperPrint jp = JasperFillManager.fillReport(jr, null,dbconnect.librarycon);

JasperViewer.viewReport(jp);

}

catch(Exception e){

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

}

private void report\_graphActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

try {

reportGraph(evt);

} catch (InvocationTargetException | InterruptedException e) {

}

}

protected void reportGraph(ActionEvent evt) throws InvocationTargetException, InterruptedException {

java.sql.Date sqldate = new java.sql.Date(report\_start\_date\_datechooser.getDate().getTime());

java.sql.Date sqldate1 = new java.sql.Date(report\_end\_date\_datechooser.getDate().getTime());

String sql = "SELECT Count(datei), EXTRACT(month FROM datei) FROM inventory " + "where datei " + "between '" + sqldate

+ "' and '" + sqldate1 + "' and ids ='" + report\_id\_dropdown.getModel().getSelectedItem() + "' Group by EXTRACT(month FROM datei)";

System.out.println(sql);

try {

rs = st.executeQuery(sql);

while (rs.next()) {

switch (rs.getString(2)) {

case "1":

graph.put(rs.getInt(1), "JAN");

break;

case "2":

graph.put(rs.getInt(1), "FEB");

break;

case "3":

graph.put(rs.getInt(1), "MAR");

break;

case "4":

graph.put(rs.getInt(1), "APR");

break;

case "5":

graph.put(rs.getInt(1), "MAY");

break;

case "6":

graph.put(rs.getInt(1), "JUNE");

break;

case "7":

graph.put(rs.getInt(1), "JULY");

break;

case "8":

graph.put(rs.getInt(1), "AUG");

break;

case "9":

graph.put(rs.getInt(1), "SEP");

break;

case "10":

graph.put(rs.getInt(1), "OCT");

break;

case "11":

graph.put(rs.getInt(1), "NOV");

break;

case "12":

graph.put(rs.getInt(1), "DEC");

break;

}

}

} catch (SQLException e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, e);

}

Chart example = new Chart(graph);

example.setSize(900, 600);

example.setLocationRelativeTo(null);

example.setDefaultCloseOperation(WindowConstants.EXIT\_ON\_CLOSE);

example.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(Progressreport.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton Reportmainbutton;

private javax.swing.JButton goback;

private javax.swing.JScrollPane jScrollPane1;

private com.toedter.calendar.JDateChooser report\_end\_date\_datechooser;

private javax.swing.JLabel report\_end\_date\_fieldname;

private javax.swing.JButton report\_graph;

private javax.swing.JComboBox<String> report\_id\_dropdown;

private javax.swing.JLabel report\_id\_fieldname;

private javax.swing.JLabel report\_name\_fieldname;

private javax.swing.JTextField report\_name\_fieldtext;

private javax.swing.JTable report\_outputtable;

private javax.swing.JPanel report\_panel\_0;

private javax.swing.JPanel report\_panel\_1;

private javax.swing.JButton report\_search;

private com.toedter.calendar.JDateChooser report\_start\_date\_datechooser;

private javax.swing.JLabel report\_start\_date\_fieldname;

private javax.swing.JLabel title;

private javax.swing.JLabel title\_1;

// End of variables declaration

}

**Studentform.Java**

package My\_Forms;

import javax.swing.JOptionPane;

import java.sql.PreparedStatement;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JFrame;

import javax.swing.table.DefaultTableModel;

public class Studentform extends javax.swing.JFrame {

/\*\*

\* Creates new form Studentform

\*/

public ConnectDb dbconnect = new ConnectDb();

public Studentform() {

initComponents();

this.setLocationRelativeTo(null);

try {

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from student order by id";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String id = String.valueOf(rs.getInt("id"));

String name = rs.getString("name");

String grade = String.valueOf(rs.getInt("grade"));

String tbData[] = {id,name,grade};

DefaultTableModel tblmodle = (DefaultTableModel)Output\_table.getModel();

tblmodle.addRow(tbData);

}

rs.close();

} catch (Exception e) {

}

}

@SuppressWarnings("unchecked")

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

private void initComponents() {

jLabel7 = new javax.swing.JLabel();

jScrollPane1 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

jScrollPane2 = new javax.swing.JScrollPane();

jTable2 = new javax.swing.JTable();

student\_jpanel\_0 = new javax.swing.JPanel();

Goback = new javax.swing.JButton();

title = new javax.swing.JLabel();

student\_panel\_1 = new javax.swing.JPanel();

Student\_add = new javax.swing.JButton();

student\_id\_feildname = new javax.swing.JLabel();

student\_name\_feildname = new javax.swing.JLabel();

student\_class\_feildname = new javax.swing.JLabel();

student\_name\_feildtext = new javax.swing.JTextField();

student\_class\_feildtext = new javax.swing.JTextField();

student\_id\_feildtext = new javax.swing.JTextField();

Student\_update = new javax.swing.JButton();

Student\_delete = new javax.swing.JButton();

student\_panel\_2 = new javax.swing.JPanel();

jScrollPane3 = new javax.swing.JScrollPane();

Output\_table = new javax.swing.JTable();

refresh = new javax.swing.JButton();

jLabel7.setText("jLabel7");

jTable1.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"

}

));

jScrollPane1.setViewportView(jTable1);

jTable2.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"

}

));

jScrollPane2.setViewportView(jTable2);

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

student\_jpanel\_0.setBackground(java.awt.Color.white);

Goback.setBackground(java.awt.Color.black);

Goback.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Goback.setForeground(java.awt.Color.white);

Goback.setText("Go Back");

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

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

GobackActionPerformed(evt);

}

});

title.setFont(new java.awt.Font("Arial", 0, 30)); // NOI18N

title.setText(" Student Records");

student\_panel\_1.setBackground(java.awt.Color.white);

student\_panel\_1.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

Student\_add.setBackground(java.awt.Color.black);

Student\_add.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Student\_add.setForeground(java.awt.Color.white);

Student\_add.setText("Add");

Student\_add.addActionListener(new java.awt.event.ActionListener() {

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

Student\_addActionPerformed(evt);

}

});

student\_id\_feildname.setFont(new java.awt.Font("Arial", 0, 16)); // NOI18N

student\_id\_feildname.setText("Student ID");

student\_name\_feildname.setFont(new java.awt.Font("Arial", 0, 16)); // NOI18N

student\_name\_feildname.setText("Student Name");

student\_class\_feildname.setFont(new java.awt.Font("Arial", 0, 16)); // NOI18N

student\_class\_feildname.setText("Student Class");

student\_name\_feildtext.addActionListener(new java.awt.event.ActionListener() {

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

student\_name\_feildtextActionPerformed(evt);

}

});

student\_id\_feildtext.addActionListener(new java.awt.event.ActionListener() {

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

student\_id\_feildtextActionPerformed(evt);

}

});

Student\_update.setBackground(java.awt.Color.black);

Student\_update.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Student\_update.setForeground(java.awt.Color.white);

Student\_update.setText("Update");

Student\_update.addActionListener(new java.awt.event.ActionListener() {

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

Student\_updateActionPerformed(evt);

}

});

Student\_delete.setBackground(java.awt.Color.black);

Student\_delete.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

Student\_delete.setForeground(java.awt.Color.white);

Student\_delete.setText("Delete");

Student\_delete.addActionListener(new java.awt.event.ActionListener() {

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

Student\_deleteActionPerformed(evt);

}

});

javax.swing.GroupLayout student\_panel\_1Layout = new javax.swing.GroupLayout(student\_panel\_1);

student\_panel\_1.setLayout(student\_panel\_1Layout);

student\_panel\_1Layout.setHorizontalGroup(

student\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, student\_panel\_1Layout.createSequentialGroup()

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

.addGroup(student\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(student\_name\_feildtext)

.addComponent(student\_class\_feildtext)

.addComponent(student\_id\_feildtext, javax.swing.GroupLayout.PREFERRED\_SIZE, 243, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(student\_panel\_1Layout.createSequentialGroup()

.addGap(58, 58, 58)

.addComponent(student\_class\_feildname))

.addGroup(student\_panel\_1Layout.createSequentialGroup()

.addGap(64, 64, 64)

.addComponent(student\_id\_feildname)))

.addGap(229, 229, 229))

.addGroup(student\_panel\_1Layout.createSequentialGroup()

.addGroup(student\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(student\_panel\_1Layout.createSequentialGroup()

.addGap(107, 107, 107)

.addComponent(Student\_add, javax.swing.GroupLayout.PREFERRED\_SIZE, 85, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(96, 96, 96)

.addComponent(Student\_update, javax.swing.GroupLayout.PREFERRED\_SIZE, 113, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(81, 81, 81)

.addComponent(Student\_delete, javax.swing.GroupLayout.PREFERRED\_SIZE, 111, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(student\_panel\_1Layout.createSequentialGroup()

.addGap(314, 314, 314)

.addComponent(student\_name\_feildname)))

.addContainerGap(139, Short.MAX\_VALUE))

);

student\_panel\_1Layout.setVerticalGroup(

student\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, student\_panel\_1Layout.createSequentialGroup()

.addGap(21, 21, 21)

.addComponent(student\_id\_feildname)

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

.addComponent(student\_id\_feildtext, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(student\_name\_feildname, javax.swing.GroupLayout.PREFERRED\_SIZE, 17, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(7, 7, 7)

.addComponent(student\_name\_feildtext, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(14, 14, 14)

.addComponent(student\_class\_feildname)

.addGap(18, 18, 18)

.addComponent(student\_class\_feildtext, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 43, Short.MAX\_VALUE)

.addGroup(student\_panel\_1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(Student\_add, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Student\_update, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Student\_delete, javax.swing.GroupLayout.PREFERRED\_SIZE, 33, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap())

);

student\_panel\_2.setBackground(java.awt.Color.white);

student\_panel\_2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

Output\_table.setFont(new java.awt.Font("Arial", 0, 16)); // NOI18N

Output\_table.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

},

new String [] {

"Student ID", "Student Name", "Student Class"

}

));

Output\_table.addMouseListener(new java.awt.event.MouseAdapter() {

public void mouseClicked(java.awt.event.MouseEvent evt) {

Output\_tableMouseClicked(evt);

}

});

jScrollPane3.setViewportView(Output\_table);

refresh.setBackground(java.awt.Color.black);

refresh.setFont(new java.awt.Font("Arial", 0, 20)); // NOI18N

refresh.setForeground(java.awt.Color.white);

refresh.setText("Refresh");

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

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

refreshActionPerformed(evt);

}

});

javax.swing.GroupLayout student\_panel\_2Layout = new javax.swing.GroupLayout(student\_panel\_2);

student\_panel\_2.setLayout(student\_panel\_2Layout);

student\_panel\_2Layout.setHorizontalGroup(

student\_panel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(student\_panel\_2Layout.createSequentialGroup()

.addContainerGap(45, Short.MAX\_VALUE)

.addGroup(student\_panel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, student\_panel\_2Layout.createSequentialGroup()

.addComponent(jScrollPane3, javax.swing.GroupLayout.PREFERRED\_SIZE, 656, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(33, 33, 33))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, student\_panel\_2Layout.createSequentialGroup()

.addComponent(refresh)

.addGap(41, 41, 41))))

);

student\_panel\_2Layout.setVerticalGroup(

student\_panel\_2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, student\_panel\_2Layout.createSequentialGroup()

.addGap(10, 10, 10)

.addComponent(refresh, javax.swing.GroupLayout.PREFERRED\_SIZE, 32, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addComponent(jScrollPane3, javax.swing.GroupLayout.PREFERRED\_SIZE, 164, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(22, Short.MAX\_VALUE))

);

javax.swing.GroupLayout student\_jpanel\_0Layout = new javax.swing.GroupLayout(student\_jpanel\_0);

student\_jpanel\_0.setLayout(student\_jpanel\_0Layout);

student\_jpanel\_0Layout.setHorizontalGroup(

student\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(student\_jpanel\_0Layout.createSequentialGroup()

.addGap(31, 31, 31)

.addGroup(student\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(student\_panel\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(student\_jpanel\_0Layout.createSequentialGroup()

.addComponent(Goback)

.addGap(78, 78, 78)

.addComponent(title, javax.swing.GroupLayout.PREFERRED\_SIZE, 403, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addComponent(student\_panel\_2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(33, Short.MAX\_VALUE))

);

student\_jpanel\_0Layout.setVerticalGroup(

student\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(student\_jpanel\_0Layout.createSequentialGroup()

.addGroup(student\_jpanel\_0Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(title, javax.swing.GroupLayout.PREFERRED\_SIZE, 63, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(Goback))

.addGap(18, 18, 18)

.addComponent(student\_panel\_1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(18, 18, 18)

.addComponent(student\_panel\_2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(student\_jpanel\_0, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

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

.addComponent(student\_jpanel\_0, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

pack();

}// </editor-fold>

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

// TODO add your handling code here:

Dashboardform Dashform = new Dashboardform();

Dashform.setVisible(true);

this.setVisible(false);

}

private void student\_name\_feildtextActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void Student\_addActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if ( student\_name\_feildtext.getText().isEmpty() || student\_class\_feildtext.getText().isEmpty() || student\_id\_feildtext.getText().isEmpty() ){

JOptionPane.showMessageDialog(new JFrame(), "Enter value in the feilds ", "Message" , JOptionPane.INFORMATION\_MESSAGE);

}else{

try{

String sql = "Insert into student" + "(id,name,grade)" + "values(?,?,?)";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.setInt(1, Integer.parseInt(student\_id\_feildtext.getText()));

ps.setString(2, student\_name\_feildtext.getText());

ps.setInt(3, Integer.parseInt(student\_class\_feildtext.getText()));

ps.execute();

JOptionPane.showMessageDialog(null, "Student added Sucessful!! Click refersh to see the changes");

student\_name\_feildtext.setText("");

student\_class\_feildtext.setText("");

student\_id\_feildtext.setText("");

}

catch(Exception e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null,"Student not added sucessfully");

}

}

}

private void Student\_updateActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if ( student\_name\_feildtext.getText().isEmpty() || student\_class\_feildtext.getText().isEmpty() || student\_id\_feildtext.getText().isEmpty() ){

JOptionPane.showMessageDialog(new JFrame(), "Choose a record from table to update", "Message" , JOptionPane.INFORMATION\_MESSAGE);

}else{

try{

String sql = "Update student set name = ?, grade = ? where id = ?";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.setString(1, student\_name\_feildtext.getText());

ps.setInt(2, Integer.parseInt(student\_class\_feildtext.getText()));

ps.setInt(3, Integer.parseInt(student\_id\_feildtext.getText()));

ps.execute();

JOptionPane.showMessageDialog(null, "Update Sucessful!! Click refersh to see the changes");

student\_name\_feildtext.setText("");

student\_class\_feildtext.setText("");

student\_id\_feildtext.setText("");

}

catch(Exception e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, "Update not successfull!!!");

}

}

}

private void Student\_deleteActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if ( student\_name\_feildtext.getText().isEmpty() || student\_class\_feildtext.getText().isEmpty() || student\_id\_feildtext.getText().isEmpty() ){

JOptionPane.showMessageDialog(new JFrame(), "Choose a record from table to delete", "Message" , JOptionPane.INFORMATION\_MESSAGE);

}else{

int result = JOptionPane.showConfirmDialog(student\_jpanel\_0,"Are you Sure? You want to Delete?", "Student record",

JOptionPane.YES\_NO\_OPTION,

JOptionPane.QUESTION\_MESSAGE);

if(result == JOptionPane.YES\_OPTION){

try{

String sql = "Delete from student where id = ? ";

PreparedStatement ps = dbconnect.librarycon.prepareStatement(sql);

ps.setInt(1, Integer.parseInt(student\_id\_feildtext.getText()));

ps.execute();

JOptionPane.showMessageDialog(null, "Delete successfully!! Click refersh to see the changes");

student\_name\_feildtext.setText("");

student\_class\_feildtext.setText("");

student\_id\_feildtext.setText("");

}

catch(Exception e) {

e.printStackTrace();

JOptionPane.showMessageDialog(null, "Delete not sucessful!!!");

}

}

}

}

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

// TODO add your handling code here:

try {

DefaultTableModel model = (DefaultTableModel) Output\_table.getModel();

model.setRowCount(0);

Statement st = dbconnect.librarycon.createStatement();

String firstSql = "Select \* from student order by id";

ResultSet rs = st.executeQuery(firstSql);

while (rs.next()) {

String id = String.valueOf(rs.getInt("id"));

String name = rs.getString("name");

String grade = String.valueOf(rs.getInt("grade"));

String tbData[] = {id,name,grade};

DefaultTableModel tblmodle = (DefaultTableModel)Output\_table.getModel();

tblmodle.addRow(tbData);

}

rs.close();

} catch (Exception e) {

}

}

private void Output\_tableMouseClicked(java.awt.event.MouseEvent evt) {

// TODO add your handling code here:

DefaultTableModel tb = (DefaultTableModel)Output\_table.getModel();

String tbid = tb.getValueAt(Output\_table.getSelectedRow(), 0).toString();

String tbname = tb.getValueAt(Output\_table.getSelectedRow(), 1).toString();

String tbgrade = tb.getValueAt(Output\_table.getSelectedRow(), 2).toString();

student\_id\_feildtext.setText(tbid);

student\_name\_feildtext.setText(tbname);

student\_class\_feildtext.setText(tbgrade);

}

private void student\_id\_feildtextActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

/\*\*

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

} catch (InstantiationException ex) {

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

} catch (IllegalAccessException ex) {

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

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

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

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton Goback;

private javax.swing.JTable Output\_table;

private javax.swing.JButton Student\_add;

private javax.swing.JButton Student\_delete;

private javax.swing.JButton Student\_update;

private javax.swing.JLabel jLabel7;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

private javax.swing.JScrollPane jScrollPane3;

private javax.swing.JTable jTable1;

private javax.swing.JTable jTable2;

private javax.swing.JButton refresh;

private javax.swing.JLabel student\_class\_feildname;

private javax.swing.JTextField student\_class\_feildtext;

private javax.swing.JLabel student\_id\_feildname;

private javax.swing.JTextField student\_id\_feildtext;

private javax.swing.JPanel student\_jpanel\_0;

private javax.swing.JLabel student\_name\_feildname;

private javax.swing.JTextField student\_name\_feildtext;

private javax.swing.JPanel student\_panel\_1;

private javax.swing.JPanel student\_panel\_2;

private javax.swing.JLabel title;

// End of variables declaration

}