***J17-1361-2022***

***SYLVIA WANGARI MWANGI***

***EVENT DRIVEN PROGRAMMING ASSIGNMENT***

***SCO202***

**QUESTION TWO**

**import java.sql.DriverManager;**

**import java.sql.\*;**

**import javax.swing.ButtonGroup;**

**import javax.swing.JOptionPane;**

**import javax.swing.table.DefaultTableModel;**

**/\***

**\* To change this license header, choose License Headers in Project Properties.**

**\* To change this template file, choose Tools | Templates**

**\* and open the template in the editor.**

**\*/**

**/\*\***

**\***

**\* @author SYLVIA WM**

**\*/**

**public class assignmentoneframe extends javax.swing.JFrame {**

**String gender;**

**/\*\***

**\* Creates new form assignmentoneframe**

**\*/**

**public assignmentoneframe() {**

**initComponents();**

**groupButton();**

**}**

**/\*\***

**\* This method is called from within the constructor to initialize the form.**

**\* WARNING: Do NOT modify this code. The content of this method is always**

**\* regenerated by the Form Editor.**

**\*/**

**@SuppressWarnings("unchecked")**

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

**private void initComponents() {**

**jButton1 = new javax.swing.JButton();**

**jLabel1 = new javax.swing.JLabel();**

**jLabel2 = new javax.swing.JLabel();**

**jLabel3 = new javax.swing.JLabel();**

**jLabel5 = new javax.swing.JLabel();**

**jLabel6 = new javax.swing.JLabel();**

**jTextField1 = new javax.swing.JTextField();**

**jTextField2 = new javax.swing.JTextField();**

**jScrollPane1 = new javax.swing.JScrollPane();**

**jTable1 = new javax.swing.JTable();**

**jRadioButton1 = new javax.swing.JRadioButton();**

**jRadioButton2 = new javax.swing.JRadioButton();**

**jTextField3 = new javax.swing.JTextField();**

**jTextField4 = new javax.swing.JTextField();**

**jButton2 = new javax.swing.JButton();**

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

**jButton1.setText("Register");**

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

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

**jButton1ActionPerformed(evt);**

**}**

**});**

**jLabel1.setText("ID");**

**jLabel2.setText("Name");**

**jLabel3.setText("Gender");**

**jLabel5.setText("Contact");**

**jLabel6.setText("Address");**

**jTextField2.addActionListener(new java.awt.event.ActionListener() {**

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

**jTextField2ActionPerformed(evt);**

**}**

**});**

**jTable1.setModel(new javax.swing.table.DefaultTableModel(**

**new Object [][] {**

**},**

**new String [] {**

**"ID", "Name", "Gender", "Address", "Title 5"**

**}**

**) {**

**Class[] types = new Class [] {**

**java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.String.class**

**};**

**public Class getColumnClass(int columnIndex) {**

**return types [columnIndex];**

**}**

**});**

**jScrollPane1.setViewportView(jTable1);**

**jRadioButton1.setText("male");**

**jRadioButton1.addActionListener(new java.awt.event.ActionListener() {**

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

**jRadioButton1ActionPerformed(evt);**

**}**

**});**

**jRadioButton2.setText("female");**

**jButton2.setText("Exit");**

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

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

**jButton2ActionPerformed(evt);**

**}**

**});**

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

**getContentPane().setLayout(layout);**

**layout.setHorizontalGroup(**

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

**.addGroup(layout.createSequentialGroup()**

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

**.addGroup(layout.createSequentialGroup()**

**.addGap(20, 20, 20)**

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

**.addGroup(layout.createSequentialGroup()**

**.addGap(8, 8, 8)**

**.addComponent(jLabel3)**

**.addGap(33, 33, 33)**

**.addComponent(jRadioButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 79, javax.swing.GroupLayout.PREFERRED\_SIZE)**

**.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 7, Short.MAX\_VALUE)**

**.addComponent(jRadioButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 81, javax.swing.GroupLayout.PREFERRED\_SIZE))**

**.addGroup(layout.createSequentialGroup()**

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

**.addComponent(jLabel2)**

**.addGroup(layout.createSequentialGroup()**

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

**.addComponent(jLabel6)**

**.addComponent(jLabel5))**

**.addGap(48, 48, 48)**

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

**.addComponent(jTextField3, javax.swing.GroupLayout.DEFAULT\_SIZE, 93, Short.MAX\_VALUE)**

**.addComponent(jTextField4))))**

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

**.addGroup(layout.createSequentialGroup()**

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

**.addGroup(layout.createSequentialGroup()**

**.addGap(57, 57, 57)**

**.addComponent(jButton1)**

**.addGap(18, 18, 18)**

**.addComponent(jButton2))**

**.addGroup(layout.createSequentialGroup()**

**.addGap(28, 28, 28)**

**.addComponent(jLabel1)**

**.addGap(92, 92, 92)**

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

**.addComponent(jTextField2, javax.swing.GroupLayout.DEFAULT\_SIZE, 85, Short.MAX\_VALUE)**

**.addComponent(jTextField1))))**

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

**.addGap(7, 7, 7)**

**.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 367, javax.swing.GroupLayout.PREFERRED\_SIZE)**

**.addContainerGap(53, Short.MAX\_VALUE))**

**);**

**layout.setVerticalGroup(**

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

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

**.addGap(27, 27, 27)**

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

**.addComponent(jLabel1)**

**.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))**

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

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

**.addComponent(jLabel2)**

**.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))**

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

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

**.addComponent(jLabel3)**

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

**.addComponent(jRadioButton1)**

**.addComponent(jRadioButton2)))**

**.addGap(29, 29, 29)**

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

**.addComponent(jLabel6)**

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

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

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

**.addComponent(jLabel5)**

**.addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))**

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

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

**.addComponent(jButton1)**

**.addComponent(jButton2))**

**.addGap(65, 65, 65))**

**.addGroup(layout.createSequentialGroup()**

**.addContainerGap()**

**.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 275, javax.swing.GroupLayout.PREFERRED\_SIZE)**

**.addContainerGap(14, Short.MAX\_VALUE))**

**);**

**pack();**

**}// </editor-fold>**

**private void groupButton() {**

**ButtonGroup group = new ButtonGroup();**

**group.add(jRadioButton1);**

**group.add(jRadioButton2);**

**}**

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

**String id = jTextField1.getText();**

**String name = jTextField2.getText();**

**if (jRadioButton1.isSelected()) {**

**gender = jRadioButton1.getText();**

**}**

**if (jRadioButton2.isSelected()) {**

**gender = jRadioButton2.getText();**

**}**

**String address = jTextField3.getText();**

**String contact = jTextField4.getText();**

**String statement[] = {id, name, gender, address, contact};**

**DefaultTableModel data = (DefaultTableModel) jTable1.getModel();**

**data.addRow(statement);**

**try {**

**Class.forName("com.mysql.jdbc.Driver");**

**Connection connect = DriverManager.getConnection("jdbc:mysql://localhost:3306/regform?zeroDateTimeBehavior=convertToNull", "root", "");**

**String query = "insert into registration(id,name,gender,address,contact) values(?,?,?,?,?)";**

**PreparedStatement mydata = connect.prepareStatement(query);**

**mydata.setString(1, id);**

**mydata.setString(2, name);**

**mydata.setString(3, gender);**

**mydata.setString(4, address);**

**mydata.setString(5, contact);**

**mydata.executeUpdate();**

**connect.close();**

**jTextField1.setText("");**

**jTextField2.setText("");**

**jTextField3.setText("");**

**jTextField4.setText("");**

**} catch (Exception e) {**

**System.out.println(e);**

**//JOptionPane.showMessageDialog(null,"connection successful");**

**}**

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

**}**

**private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {**

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

**}**

**private void jRadioButton1ActionPerformed(java.awt.event.ActionEvent evt) {**

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

**}**

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

**if(JOptionPane.showConfirmDialog(null, "Are you sure to Exit","Exit",JOptionPane.YES\_NO\_CANCEL\_OPTION)==JOptionPane.YES\_OPTION){**

**System.exit(0);**

**}**

**}**

**/\*\***

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

**} catch (InstantiationException ex) {**

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

**} catch (IllegalAccessException ex) {**

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

**} catch (javax.swing.UnsupportedLookAndFeelException ex) {**

**java.util.logging.Logger.getLogger(assignmentoneframe.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 assignmentoneframe().setVisible(true);**

**}**

**});**

**}**

**// Variables declaration - do not modify**

**private javax.swing.JButton jButton1;**

**private javax.swing.JButton jButton2;**

**private javax.swing.JLabel jLabel1;**

**private javax.swing.JLabel jLabel2;**

**private javax.swing.JLabel jLabel3;**

**private javax.swing.JLabel jLabel5;**

**private javax.swing.JLabel jLabel6;**

**private javax.swing.JRadioButton jRadioButton1;**

**private javax.swing.JRadioButton jRadioButton2;**

**private javax.swing.JScrollPane jScrollPane1;**

**private javax.swing.JTable jTable1;**

**private javax.swing.JTextField jTextField1;**

**private javax.swing.JTextField jTextField2;**

**private javax.swing.JTextField jTextField3;**

**private javax.swing.JTextField jTextField4;**

**// End of variables declaration**

**}**