SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA : 3.18)

DEPARTMENT OF INFORMATION TECHNOLOGY

COURSE CODE: DJS22ITL306   **DATE**: 1411/23

COURSE NAME: Programing Laboratory 1 (Advanced Java)   **SAP ID** : 60003220045

CLASS: S.Y B. Tech IT   **NAME** : Anish Sharma

EXPERIMENT NO.4

CO/LO:
CO1- Modify the behavior of methods, classes, and interfaces at runtime.

AIM / OBJECTIVE:

For a given problem statement build an application having multiple frames with Java Beans.

PROBLEM STATEMENTS:
1. Write a Java program to create multiple frames containing personal information, educational information and extra-curricular achievements.
Provide an option to go back and forth from one frame to another frame.
Submit button on last frame should pop up a dialogue box showing successful message.

Include all the below mentioned components in above frames wherever applicable, Text field, label, panel, radio button, check boxes, combo box, text area, list.

CODE:

Main Java File:

/*

```java
* To change this license header, choose License Headers in Project Properties. * To change this
  template file, choose Tools | Templates * and open the template in the editor.
*/ package
resume;

/**
 *
 * @author DJSCE.Student
 */
public class Resume {

   /**
 * @param args the command line arguments
   */ public static void main(String[] args)
   {
      // TODO code application logic here
      PersonalDetails pd = new PersonalDetails();
      pd.setVisible(true);
   }

}
```

Frame 1:

```java
package resume;

/**
 *
   * @author DJSCE.Student
 */ public class PersonalDetails extends
javax.swing.JFrame {

   /**
   * Creates new form PersonalDetails
   */ public
```

```java
PersonalDetails() { initComponents();
} /**

* This method is called from within the constructor to initialize the form. * WARNING: Do
  NOT modify this code. The content of this method is always * regenerated by the Form
  Editor.

*/
@SuppressWarnings("unchecked") private void
jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
eduQualification q = new eduQualification();

    q.setVisible(true);
    // TODO add your handling code here:
} private void jTextField1ActionPerformed(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 jTextField3ActionPerformed(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(PersonalDetails.class.getName()).log(java.util.logging.
    Level.
SEVERE, null, ex);
    } catch (InstantiationException ex) {

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

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

// Variables declaration - do not modify private
javax.swing.JButton jButton1; private
javax.swing.JLabel jLabel1; private javax.swing.JLabel
jLabel2; private javax.swing.JLabel jLabel3; private
javax.swing.JLabel jLabel4; private javax.swing.JLabel
jLabel5; private javax.swing.JRadioButton
jRadioButton1; private javax.swing.JRadioButton
jRadioButton2; private javax.swing.JTextField
jTextField1; private javax.swing.JTextField
```

```java
    jTextField2; private javax.swing.JTextField
    jTextField3;
    // End of variables declaration
}
```

Frame 2:

```java
package resume;

/**
 *
  * @author DJSCE.Student
 */ public class eduQualification extends
javax.swing.JFrame {

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

  * This method is called from within the constructor to initialize the form. * WARNING: Do
    NOT modify this code. The content of this method is always * regenerated by the Form
    Editor.
  */
  @SuppressWarnings("unchecked") private void
jButton1ActionPerformed(java.awt.event.ActionEvent evt) { // TODO
add your handling code here:
      PersonalDetails pd = new PersonalDetails();
      pd.setVisible(true);
  }

  private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) { //
    TODO add your handling code here: extraCuricular ec = new
    extraCuricular();
     ec.setVisible(true);
```

```java
} private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt)

{ // TODO add your handling code here:

}

private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) { //
    TODO add your handling code here:
} private void jTextField3ActionPerformed(java.awt.event.ActionEvent evt)

{ // TODO add your handling code here:

} private void jTextField4ActionPerformed(java.awt.event.ActionEvent evt)

{ // TODO add your handling code here:

} private void jTextField5ActionPerformed(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(eduQualification.class.getName()).log(java.util.logging.Leve
l.SEVERE, null, ex);
```

```java
        } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(eduQualification.class.getName()).log(java.util.logging.
        Leve l.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {

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

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

        /* Create and display the form */
        java.awt.EventQueue.invokeLater(new Runnable()
            { public void run() { new
            eduQualification().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 jLabel5; private
    javax.swing.JLabel jLabel6; private
    javax.swing.JLabel jLabel7; private
    javax.swing.JLabel jLabel8; private
    javax.swing.JLabel jLabel9; private
    javax.swing.JTextField jTextField1; private
    javax.swing.JTextField jTextField2; private
    javax.swing.JTextField jTextField3; private
    javax.swing.JTextField jTextField4; private
    javax.swing.JTextField jTextField5;
    // End of variables declaration
}
```

Frame 3:

```java
package resume; import

javax.swing.JOptionPane;

/**
 *
  * @author DJSCE.Student
 */ public class extraCuricular extends
javax.swing.JFrame {

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

  * This method is called from within the constructor to initialize the form. * WARNING: Do
    NOT modify this code. The content of this method is always * regenerated by the Form
    Editor.
  */
  @SuppressWarnings("unchecked") private void
SubmitActionPerformed(java.awt.event.ActionEvent evt) {
JOptionPane.showMessageDialog(this,"Data saves succesfully");
    System.exit(0);
    // TODO add your handling code here:
          JOptionPane.showMessageDialog(null, "Form submitted Successfully!", "Alert",
JOptionPane.INFORMATION_MESSAGE);// TODO add your handling code here:
  } private void jButton1ActionPerformed(java.awt.event.ActionEvent evt)

  { // TODO add your handling code here:

    eduQualification eq = new eduQualification();
    eq.setVisible(true);
  }
```

SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA : 3.18)

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

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

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

java.util.logging.Logger.getLogger(extraCuricular.class.getName()).log(java.util.logging.Level.S
EVERE, null, ex);
    }
    //</editor-fold>
    /* Create and display the form */
    java.awt.EventQueue.invokeLater(new Runnable() { public
    void run() {
```

```java
                new extraCuricular().setVisible(true);
            }
        });
    }

    // Variables declaration - do not modify private
    javax.swing.JButton Submit; private
    javax.swing.JButton jButton1; private
    javax.swing.JLabel jLabel1; private
    javax.swing.JLabel jLabel2; private
    javax.swing.JScrollPane jScrollPane1; private
    javax.swing.JTextArea jTextArea1;
    // End of variables declaration
}
```

Output :

SHRI VILEPARLE KELAVANI MANDAL'S
DWARKADAS J. SANGHVI COLLEGE OF ENGINEERING
(Autonomous College Affiliated to the University of Mumbai)
NAAC ACCREDITED with "A" GRADE (CGPA : 3.18)

Education Details

10th Percentage : 85

12th Percentage : 85

CET Percentile : 99.09

Sem 1 CGPA : 9.48

Sem 2 CGPA : 9.52

PREV | NEXT

OBSERVATION:

Describe various components used with their usability?

Some of the important and common components of the Java Swing class are:

1. JFrame: JFrame is a top-level container that represents the main window of a GUI application. It provides a title bar, and minimizes, maximizes, and closes buttons.

2. JPanel: JPanel is a container that can hold other components. It is commonly used to group related components together.

3. JButton: JButton is a component that represents a clickable button. It is commonly used to trigger actions in a GUI application.

4. JLabel: JLabel is a component that displays text or an image. It is commonly used to provide information or to label other components.

5. JTextField: JTextField is a component that allows the user to input text. It is commonly used to get input from the user, such as a name or an address.

6. JCheckBox: JCheckBox is a component that represents a checkbox. It is commonly used to get a binary input from the user, such as whether or not to enable a feature.

7. JList: JList is a component that represents a list of elements. It is typically used to display a list of options from which the user can select one or more items.

8. JTable: JTable is a component that represents a data table. It is typically used to present data in a tabular fashion, such as a list of products or a list of orders.

9. JScrollPane: JScrollPane is a component that provides scrolling functionality to other components. It is commonly used to add scrolling to a panel or a table.

CONCLUSION:

With the help of experiment 4 we have learnt the use of different components of swings