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

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CLASS: S.Y B.Tech IT-1
COURSE: Advance Java
DATE: 9/11/23
COURSE CODE: DJS22ITL306

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:

```
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:

```
package resume;

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

   /**
   * Creates new form PersonalDetails
   */ public
   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
    jTextField2; private javax.swing.JTextField
    jTextField3;
    // End of variables declaration
}
```

Frame 2:

```
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);
   } 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);
    } 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.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
java.util.logging.Logger.getLogger(eduQualification.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
        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:

```
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);
```

```
    }

    /**
    * @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() {



            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
}
```

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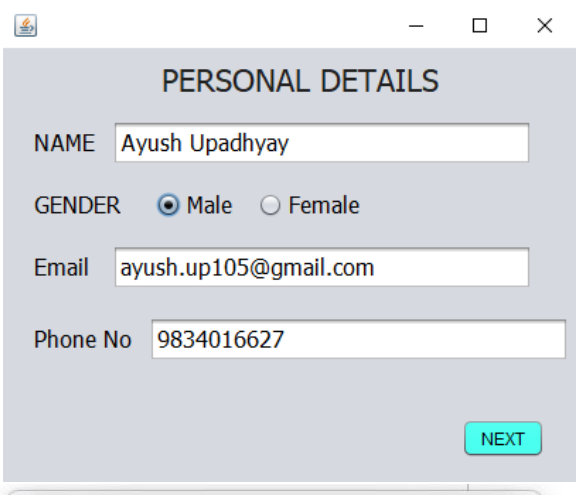
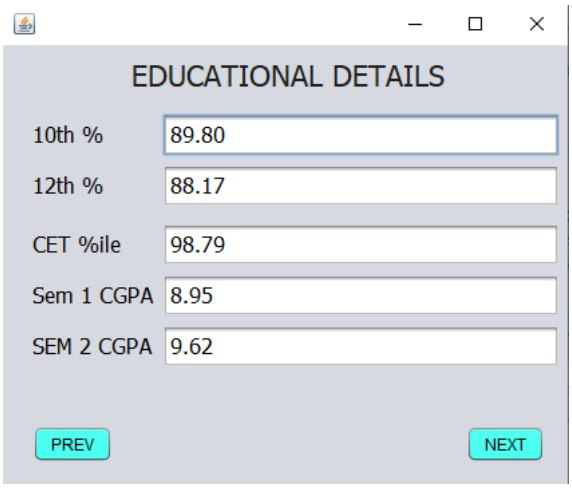
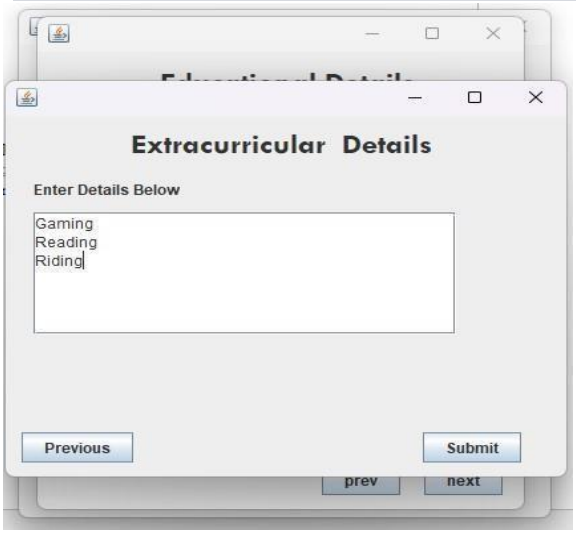
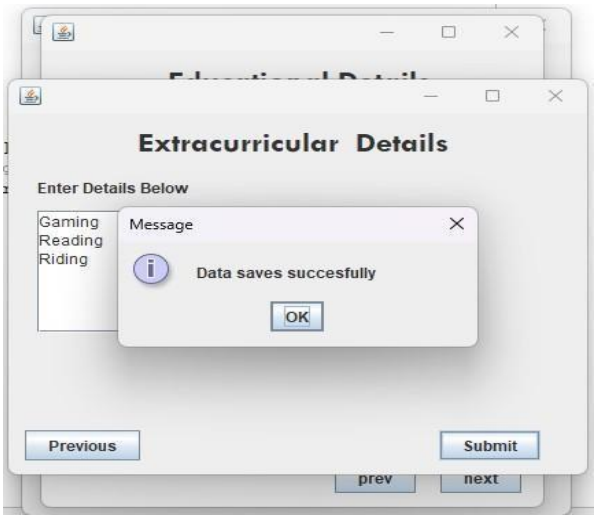
Output :









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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