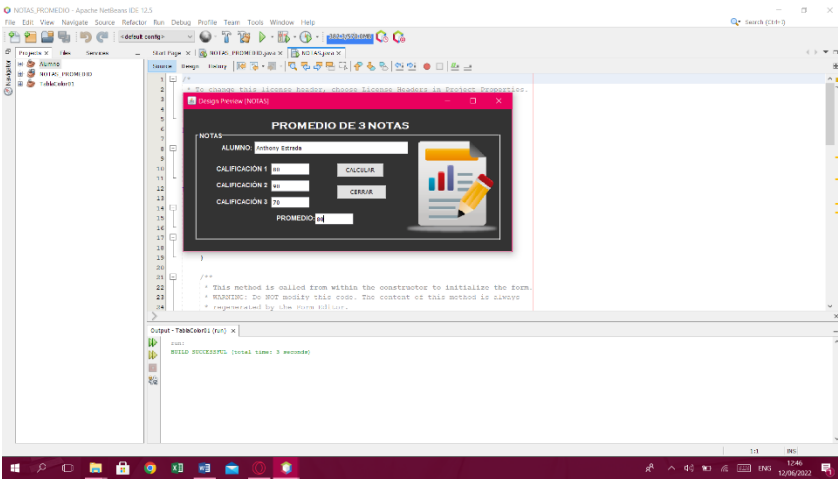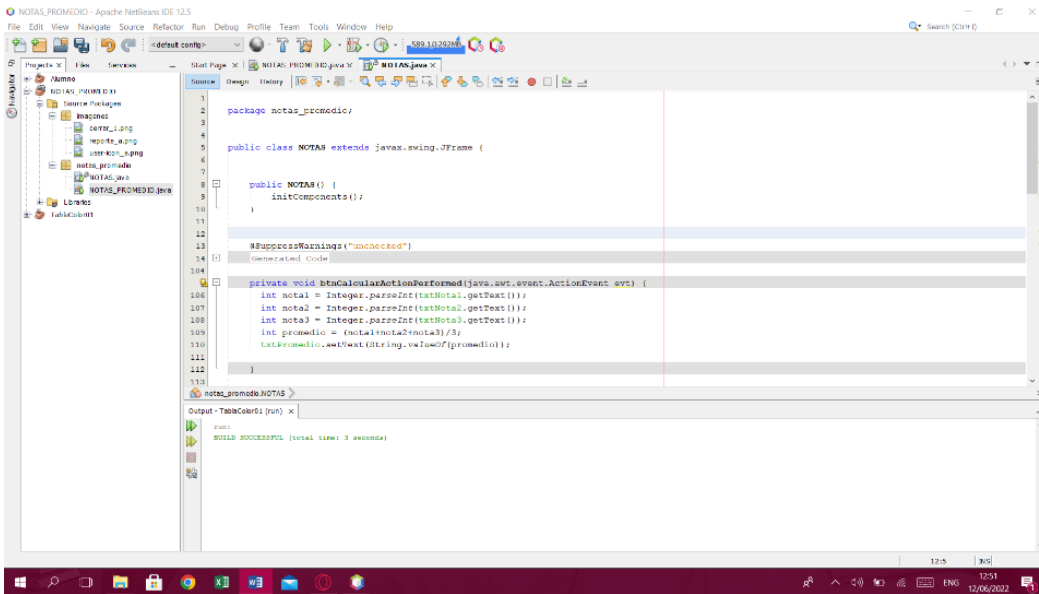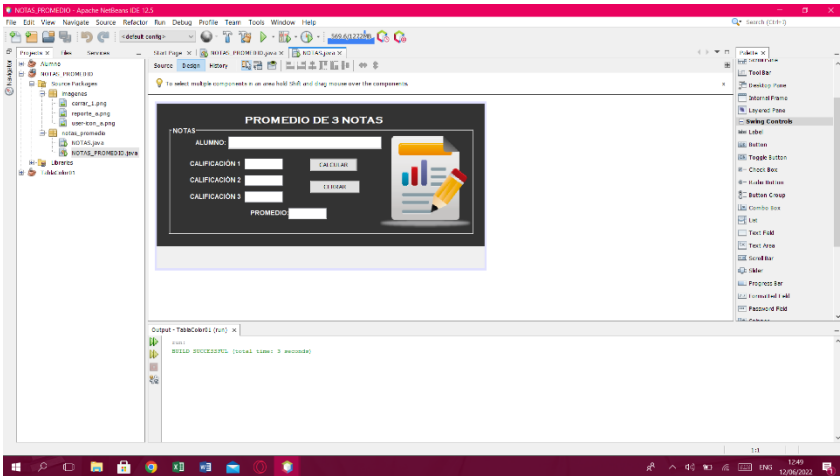# En este programa vamos a calcular el promedio de 3 notas con memoria Dinámica

- Como podemos ver se muestra una interfaz gráfica bien llamativa donde pide el nombre del alumno y la calificación de 3 notas. Luego donde tenemos los bonotes hacemos clic en calcular y nos muestra el promedio de las notas.

- Hemos creado un Jframe con la siguiente interfaz.

- **Código del programa Notas:**

```java
package notas_promedio;


public class NOTAS extends javax.swing.JFrame {


    public NOTAS() {
        initComponents();
    }


    @SuppressWarnings("unchecked")
    // <editor-fold defaultstate="collapsed" desc="Generated Code">
    private void initComponents() {

        jPanel1 = new javax.swing.JPanel();
        jPanel2 = new javax.swing.JPanel();
        jLabel1 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();
        txtNota1 = new javax.swing.JTextField();
        txtNota2 = new javax.swing.JTextField();
        txtNota3 = new javax.swing.JTextField();
        btnCalcular = new javax.swing.JButton();
        jLabel5 = new javax.swing.JLabel();
        txtPromedio = new javax.swing.JTextField();
        jLabel6 = new javax.swing.JLabel();
        btnCerrar = new javax.swing.JButton();
        jLabel7 = new javax.swing.JLabel();


        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());


        jPanel1.setBackground(new java.awt.Color(51, 51, 51));
        jPanel1.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
```

```java
jPanel2.setBackground(new java.awt.Color(51, 51, 51));

jPanel2.setBorder(javax.swing.BorderFactory.createTitledBorder(null, "NOTAS",
javax.swing.border.TitledBorder.DEFAULT_JUSTIFICATION,
javax.swing.border.TitledBorder.DEFAULT_POSITION, new java.awt.Font("Dialog", 1, 12), new
java.awt.Color(255, 255, 255))); // NOI18N

jPanel2.setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());


jLabel1.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N

jLabel1.setForeground(new java.awt.Color(255, 255, 255));

jLabel1.setText("ALUMNO:");

jPanel2.add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(50, 20, -1, 20));

jPanel2.add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(110, 20, 280, 22));


jLabel2.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N

jLabel2.setForeground(new java.awt.Color(255, 255, 255));

jLabel2.setText("CALIFICACIÓN 3");

jPanel2.add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(40, 120, -1, -1));


jLabel3.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N

jLabel3.setForeground(new java.awt.Color(255, 255, 255));

jLabel3.setText("CALIFICACIÓN 1");

jPanel2.add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(40, 60, -1, -1));


jLabel4.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N

jLabel4.setForeground(new java.awt.Color(255, 255, 255));

jLabel4.setText("CALIFICACIÓN 2");

jPanel2.add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(40, 90, -1, -1));

jPanel2.add(txtNota1, new org.netbeans.lib.awtextra.AbsoluteConstraints(140, 60, 70, -1));

jPanel2.add(txtNota2, new org.netbeans.lib.awtextra.AbsoluteConstraints(140, 90, 70, -1));

jPanel2.add(txtNota3, new org.netbeans.lib.awtextra.AbsoluteConstraints(140, 120, 70, -1));


btnCalcular.setText("CALCULAR");

btnCalcular.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnCalcularActionPerformed(evt);
    }
});

jPanel2.add(btnCalcular, new org.netbeans.lib.awtextra.AbsoluteConstraints(260, 60, -1, -1));


jLabel5.setFont(new java.awt.Font("Dialog", 1, 12)); // NOI18N

jLabel5.setForeground(new java.awt.Color(255, 255, 255));
```

```java
        jLabel5.setText("PROMEDIO: ");

        jPanel2.add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(150, 150, -1, -1));

        jPanel2.add(txtPromedio, new org.netbeans.lib.awtextra.AbsoluteConstraints(220, 150, 70, -1));


        jLabel6.setIcon(new
javax.swing.ImageIcon(getClass().getResource("/imagenes/reporte_a.png"))); // NOI18N

        jPanel2.add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(380, 10, 180, 180));


        btnCerrar.setText("CERRAR");

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

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

                btnCerrarActionPerformed(evt);

            }

        });

        jPanel2.add(btnCerrar, new org.netbeans.lib.awtextra.AbsoluteConstraints(260, 100, 90, -1));


        jPanel1.add(jPanel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(20, 40, 560, 200));


        jLabel7.setFont(new java.awt.Font("Copperplate Gothic Bold", 1, 18)); // NOI18N

        jLabel7.setForeground(new java.awt.Color(255, 255, 255));

        jLabel7.setText("PROMEDIO DE 3 NOTAS");

        jPanel1.add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(160, 20, -1, -1));


        getContentPane().add(jPanel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 600,
260));


        pack();

    }// </editor-fold>


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

        int nota1 = Integer.parseInt(txtNota1.getText());

        int nota2 = Integer.parseInt(txtNota2.getText());

        int nota3 = Integer.parseInt(txtNota3.getText());

        int promedio = (nota1+nota2+nota3)/3;

        txtPromedio.setText(String.valueOf(promedio));


    }


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

        dispose();

    }
```

```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(NOTAS.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {

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

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

java.util.logging.Logger.getLogger(NOTAS.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 NOTAS().setVisible(true);
            }
        });
    }
```

```java
    // Variables declaration - do not modify
    private javax.swing.JButton btnCalcular;
    private javax.swing.JButton btnCerrar;
    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.JLabel jLabel6;
    private javax.swing.JLabel jLabel7;
    private javax.swing.JPanel jPanel1;
    private javax.swing.JPanel jPanel2;
    private javax.swing.JTextField jTextField1;
    private javax.swing.JTextField txtNota1;
    private javax.swing.JTextField txtNota2;
    private javax.swing.JTextField txtNota3;
    private javax.swing.JTextField txtPromedio;
    // End of variables declaration
}
```