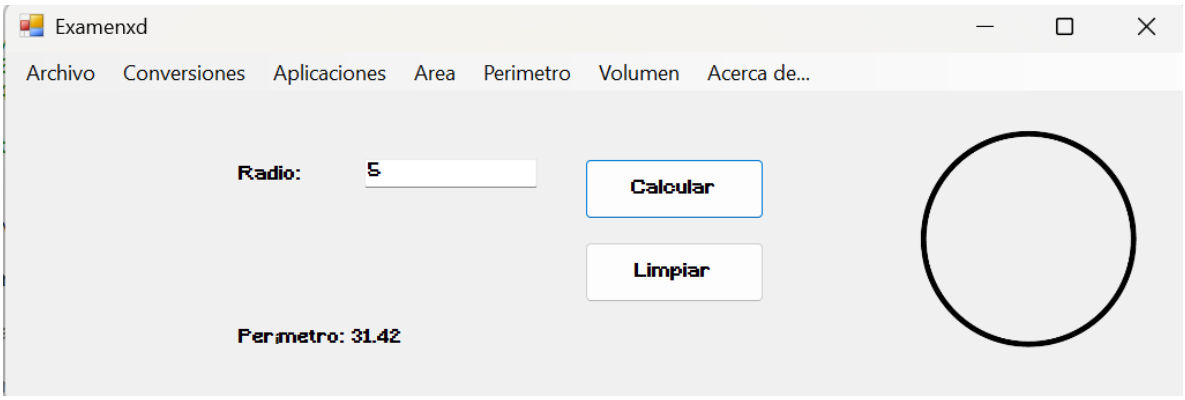

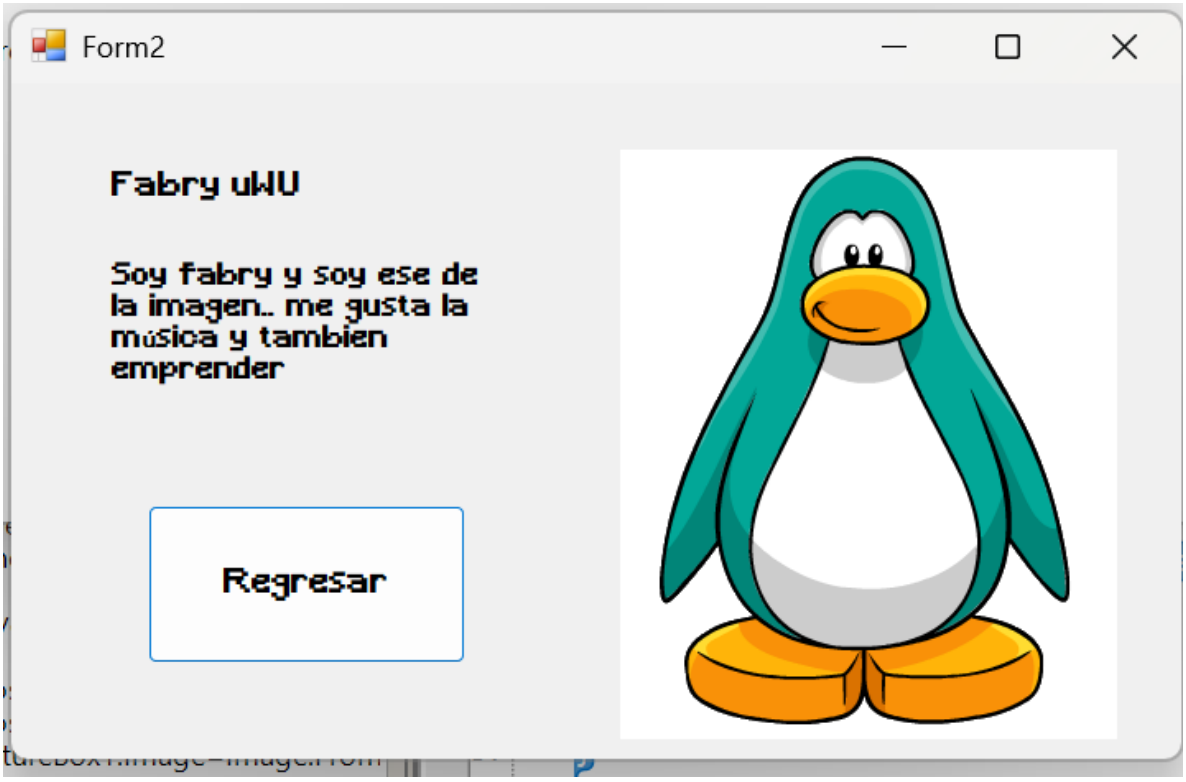


```
/*
 * Created by SharpDevelop.
 * User: Fabry UwU
 * Date: 29/10/2025
 * Time: 12:54 p. m.
 *
 * To change this template use Tools | Options | Coding | Edit Standard Headers.
 */
using System;
using System.Collections.Generic;
```

```
using System.Drawing;
using System.Windows.Forms;

namespace examen
{
   /// <summary>
   /// Description of MainForm.
   /// </summary>
   public partial class MainForm : Form
   {
      int contador=0;
      public MainForm()
      {
         //
         // The InitializeComponent() call is required for Windows Forms designer support.
         //
         InitializeComponent();

         //
         // TODO: Add constructor code after the InitializeComponent() call.
         //
      }


      //usuario debe ser Admin y contra 123
      void TxtusuarioTextChanged(object sender, EventArgs e)
      {

      }

      void TxtcontraTextChanged(object sender, EventArgs e)
      {

      }

      void BtnentrarClick(object sender, EventArgs e)
      {


         if (txtusuario.Text == "Admin" && txtcontra.Text == "123")
        {
            Form1 f = new Form1();
            f.Show();
            this.Hide();
```

```
        }

        else

        {
           contador = contador +1;
           MessageBox.Show("Usuario o contra incorrectos");
           if (contador>=3)

           {
              MessageBox.Show("Usuario o contra incorrectos");
              Application.Exit();

           }
        }
     }

     void MainFormLoad(object sender, EventArgs e)
     {

     }
  }
}


/*
 * Created by SharpDevelop.
 * User: Fabry UwU
 * Date: 29/10/2025
 * Time: 12:59 p. m.
 */
using System;
using System.Drawing;
using System.Windows.Forms;

namespace examen
{
   public partial class Form1 : Form
   {
      public Form1()
      {
         InitializeComponent();
         OcultarCampos();
      }
```

```
void OcultarCampos()
{
   lbl1.Visible = false;
   lbl2.Visible = false;
   txt1.Visible = false;
   txt2.Visible = false;
   lblresultado.Visible = false;
   btncalcular.Visible = false;
   btnlimpiar.Visible = false;
}

void Mostrar1(string etiqueta)
{
   OcultarCampos();
   lbl1.Text = etiqueta;
   lbl1.Visible = true;
   txt1.Visible = true;
   lblresultado.Visible = true;
   btncalcular.Visible = true;
   btnlimpiar.Visible = true;
}

void Mostrar2(string etiqueta1, string etiqueta2)
{
   OcultarCampos();
   lbl1.Text = etiqueta1;
   lbl1.Visible = true;
   txt1.Visible = true;
   lbl2.Text = etiqueta2;
   lbl2.Visible = true;
   txt2.Visible = true;
   lblresultado.Visible = true;
   btncalcular.Visible = true;
   btnlimpiar.Visible = true;
}

void SalirToolStripMenuItemClick(object sender, EventArgs e)
{
   if (MessageBox.Show("¿Seguro que desea salir?", "Confirmación",
      MessageBoxButtons.YesNo, MessageBoxIcon.Question) == DialogResult.Yes)
   {
      Application.Exit();
   }
```

```
}

void KilometrosAMillasToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Kilómetros:");
  btncalcular.Tag = "km_millas";

}

void KilogramosALibrasToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Kilogramos:");
  btncalcular.Tag = "kg_libras";
}

void CelsiusAFahrenheitToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Celsius:");
  btncalcular.Tag = "celsius_fahrenheit";
}

void SegundosAHorasToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Segundos:");
  btncalcular.Tag = "segundos_horas";
}

void FactorialToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Número:");
  btncalcular.Tag = "factorial";
}

void FibonacciToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Cantidad:");
  btncalcular.Tag = "fibonacci";
}

void CuadradoToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Lado:");
  btncalcular.Tag = "area_cuadrado";
  pictureBox1.Image=Image.FromFile("cuadrado.png");
```

```
}

void RectanguloToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar2("Base:", "Altura:");
  btncalcular.Tag = "area_rectangulo";
  pictureBox1.Image=Image.FromFile("rectangulo.png");
}

void TrianguloToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar2("Base:", "Altura:");
  btncalcular.Tag = "area_triangulo";
  pictureBox1.Image=Image.FromFile("triangulo.jpg");
}

void CircunferenciaToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Radio:");
  btncalcular.Tag = "perimetro_circunferencia";
  pictureBox1.Image=Image.FromFile("circulo.png");
}

void TrapecioToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar2("Base Mayor:", "Base Menor:");
  btncalcular.Tag = "area_trapecio";
  pictureBox1.Image=Image.FromFile("trapecio.png");
}

void EsferaToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Radio:");
  btncalcular.Tag = "volumen_esfera";
  pictureBox1.Image=Image.FromFile("esfera.png");
}

void CuboToolStripMenuItemClick(object sender, EventArgs e)
{
  Mostrar1("Lado:");
  btncalcular.Tag = "volumen_cubo";
  pictureBox1.Image=Image.FromFile("circulo.jpg");
}
```

```
void BtncalcularClick(object sender, EventArgs e)
{
  try
  {
    string operacion = btncalcular.Tag.ToString();

    if (operacion == "km_millas")
    {
      double km = Convert.ToDouble(txt1.Text);
      double millas = km * 0.621371;
      lblresultado.Text = "Resultado: " + millas.ToString("F2") + " millas";
    }
    else if (operacion == "kg_libras")
    {
      double kg = Convert.ToDouble(txt1.Text);
      double libras = kg * 2.20462;
      lblresultado.Text = "Resultado: " + libras.ToString("F2") + " libras";
    }
    else if (operacion == "celsius_fahrenheit")
    {
      double c = Convert.ToDouble(txt1.Text);
      double f = (c * 9 / 5) + 32;
      lblresultado.Text = "Resultado: " + f.ToString("F2") + " °F";
    }
    else if (operacion == "segundos_horas")
    {
      double segundos = Convert.ToDouble(txt1.Text);
      double horas = segundos / 3600;
      lblresultado.Text = "Resultado: " + horas.ToString("F2") + " horas";
    }
    else if (operacion == "factorial")
    {
      int n = Convert.ToInt32(txt1.Text);
      if (n < 0)
      {
        MessageBox.Show("El factorial no existe para números negativos");
        return;
      }
      long factorial = 1;
      for (int i = 1; i <= n; i++)
      {
        factorial = factorial * i;
      }
      lblresultado.Text = "Resultado: " + factorial.ToString();
```

```
}
else if (operacion == "fibonacci")
{
  int cantidad = Convert.ToInt32(txt1.Text);
  if (cantidad <= 0)
  {
    MessageBox.Show("Ingresa un número positivo");
    return;
  }
  string serie = "";
  int a = 0, b = 1;
  for (int i = 0; i < cantidad; i++)
  {
    serie += a + ", ";
    int temp = a + b;
    a = b;
    b = temp;
  }
  lblresultado.Text = "Serie: " + serie;
}
else if (operacion == "area_cuadrado")
{
  double lado = Convert.ToDouble(txt1.Text);
  double area = lado * lado;
  lblresultado.Text = "Área: " + area.ToString("F2");
}
else if (operacion == "area_rectangulo")
{
  double baseR = Convert.ToDouble(txt1.Text);
  double alturaR = Convert.ToDouble(txt2.Text);
  double area = baseR * alturaR;
  lblresultado.Text = "Área: " + area.ToString("F2");
}
else if (operacion == "area_triangulo")
{
  double baseT = Convert.ToDouble(txt1.Text);
  double alturaT = Convert.ToDouble(txt2.Text);
  double area = (baseT * alturaT) / 2;
  lblresultado.Text = "Área: " + area.ToString("F2");
}
else if (operacion == "perimetro_circunferencia")
{
  double radio = Convert.ToDouble(txt1.Text);
  double perimetro = 2 * Math.PI * radio;
```

```
            lblresultado.Text = "Perímetro: " + perimetro.ToString("F2");
        }
        else if (operacion == "area_trapecio")
        {
            double baseMayor = Convert.ToDouble(txt1.Text);
            double baseMenor = Convert.ToDouble(txt2.Text);
            // Necesitarías altura pero solo tienes 2 textbox
            MessageBox.Show("Necesitas también la altura del trapecio");
        }
        else if (operacion == "volumen_esfera")
        {
            double radio = Convert.ToDouble(txt1.Text);
            double volumen = (4.0 / 3.0) * Math.PI * radio * radio * radio;
            lblresultado.Text = "Volumen: " + volumen.ToString("F2");
        }
        else if (operacion == "volumen_cubo")
        {
            double lado = Convert.ToDouble(txt1.Text);
            double volumen = lado * lado * lado;
            lblresultado.Text = "Volumen: " + volumen.ToString("F2");
        }
      }
      catch
      {
        MessageBox.Show("NO");
      }
    }

    void BtnlimpiarClick(object sender, EventArgs e)
    {
      txt1.Text = "";
      txt2.Text = "";
      lblresultado.Text = "Resultado:";
    }

    void AcercaDeToolStripMenuItemClick(object sender, EventArgs e)
    {
      Form2 g = new Form2();
        g.Show();
    }
  }
}
```

```
/*
 * Created by SharpDevelop.
 * User: Fabry UwU
 * Date: 29/10/2025
 * Time: 02:29 p. m.
 *
 * To change this template use Tools | Options | Coding | Edit Standard Headers.
 */
using System;
using System.Drawing;
using System.Windows.Forms;

namespace examen
{
  /// <summary>
  /// Description of Form2.
  /// </summary>
  public partial class Form2 : Form
  {
    public Form2()
    {
      //
      // The InitializeComponent() call is required for Windows Forms designer support.
      //
      InitializeComponent();

      //
      // TODO: Add constructor code after the InitializeComponent() call.
      //
    }

    void Button1Click(object sender, EventArgs e)
    {
      this.Hide();
    }
  }
}
```