BỘ GIÁO DỰC VÀ ĐÀO TẠO ĐẠI HỘC DUY TÂN ---- ∞⊞α ----

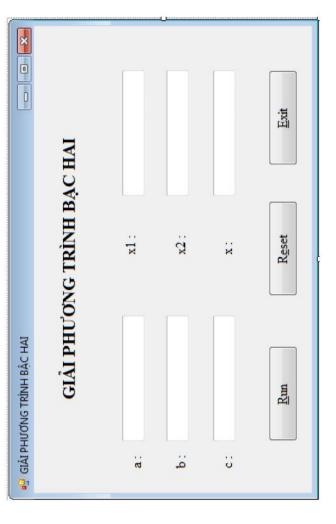
BÀI THỰC HÀNH PHÀN 3 WINDOWFORM

Lập Trình Winforms: VB.NET / C#.NET

GIẢNG VIÊN: PHẠM VĂN DƯỢC

DÀ NẮNG 08/2014

Bài 2:



Toàn văn chương trình:

```
using System;
using System.Collections.Generic;
using System.Data;
using System.Drawing;
using System.Ling;
using System.Ling;
using System.Text;
using System.Text;
using System.Text;
using System.Text;
public partial class Form1 : Form{
    public partial class Form1 : Form{
        private double a;
        private double b;
```

```
c
```

```
public Phuong_trinh(double a, double b, double c) {
                                                                                                                                                                  this.a = \overline{a}; this.b = b; this.c = c;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        set { this.c = value; }
                                                                                                                                                                                                                                                                                                                                                              get { return this.x1; ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                           get { return this.x2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               set { this.a = value;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  set { this.b = value; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  get { return this.c; }
                                                                                                                                                                                                                                                                  get { return this.x; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         get { return this.a; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            get { return this.b; }
                                                                                             private double delta;
                       private double x1;
                                               private double x2;
                                                                                                                                                                                                                    ----//
                                                                     private double x;
                                                                                                                                                                                                                                                                                                                                                                                                                                  public double X2 {
private double c;
                                                                                                                                                                                                                                                                                                                                     public double X1 {
                                                                                                                                                                                                                                        public double X{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               public double A{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     public double B{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           public double C{
```

```
4
```

```
this.x1 = this.x2 = -this.b / (2 * this.a);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           x1 = (-b + Math.Sqrt(delta)) /
x2 = (-b - Math.Sqrt(delta)) /
                                                                                                                                                                                                                                                                                                               delta = Math.Pow(b, 2) - 4 * a * c;
                                                                                                                                                                                                                                                                                                                                                       this.delta = Math.Sqrt(-delta);
                                                                                                                                            if (this.c == 0) return 0;
                                                                                                                                                                                                          this.x = -this.c / this.b;
                      get { return this.delta; }
                                                                                                                                                                                                                                                                                                                                                                                                                                        if (delta == 0) {
                                                                                                                                                                   else return 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return 5;
                                                                                                                        if (this.b == 0)
                                                                                                                                                                                                                                                                                                                                 if (delta < 0) {</pre>
                                                                                                                                                                                                                            return 2;
                                                                                                                                                                                                                                                                                                                                                                          return 3;
                                                                             public int giai_PT() {
   if (this.a == 0)
                                                                                                                                                                                                                                                                                         double delta;
public double Delta{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         else{
                                                                                                                                                                                       else{
                                                                                                                                                                                                                                                                                                                                                                                                                     else
                                                                                                                                                                                                                                                                        else
```

```
MessageBox.Show("Phuong trình vô số nghiệm !!!");
                                                                                                                                                                   private void button_run_Click(object sender, EventArgs e) {
    double a = 0, b = 0, c = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MessageBox.Show("TextBox b empty data !!!\n");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MessageBox.Show("TextBox c empty data !!!\n");
                                                                                                                                                                                                                                                                                                                                         MessageBox.Show("TextBox a empty data !");
                                                                                                                                                                                                                                                                                    a = double.Parse(this.textBox a.Text);
                                                                                                                                                                                                                                                                                                                                                                                                                                                      b = double.Parse(this.textBox_b.Text);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            c = double.Parse(this.textBox_c.Text);
(0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               button_reset_Click(this, e);
= new Phuong_trinh(0, 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     this.textBox_b.Select();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                this.textBox_c.Select();
                                                                                                                                                                                                                                                                                                                                                                      this.textBox_a.Select();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   }catch (System.Exception) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P.A = a; P.B = b; P.C = c;
signal = P.giai PT();
switch (signal) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        }catch (System.Exception) {
                                                                                                                                                                                                                                                                                                              } catch (System.Exception) {
                                                                                  InitializeComponent();
                                                                                                                                                                                                                        int signal = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        case 0:
                                                     public Form1() {
Phuong_trinh P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    try {
                                                                                                                                                                                                                                                                                                                                                                                                                                 try
```

```
" + imaginary.ToString();
                                                                                                                                                                                                                                                                                                                                                                                                                                               " + imaginary.ToString();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          this.textBox x1.Text = this.textBox x2.Text = (-(P.B / (2 * P.A))).ToString();
                                                                                                                                                                                                                                                                                                                                                                                                                                             this.textBox_x2.Text = this.textBox_x2.Text + " - i.
                                                                                                                                                                                                                                                                                                                                                                                   ..i
                                                                                                                                                                                                                                                                                                                                                                               this.textBox_x1.Text = this.textBox_x1.Text + " +
this.textBox_x2.Text = real.ToString();
                                                                                                                                                                                                                                                       MessageBox.Show("Phuong trình có nghiệm phúc:");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 private void button_exit_Click(object sender, EventArgs e) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MessageBox.Show("Phuong trình có nghiệm kép:");
                             MessageBox.Show("Phuong trình vô nghiệm !!!");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              private void textBox_b_Leave(object sender, EventArgs e) {
                                                                                                                                                                                                                                                                                                                 double imaginary = (P.Delta / (2 * P.A));
                                                                                                                                                                                                                                                                                                                                                  this.textBox_x1.Text = real.ToString();
                                                                                                                                                        this.textBox x.Text = P.X.ToString();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     this.textBox_x1.Text = P.X1.ToString();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    this.textBox_x2.Text = P.X2.ToString();
                                                                                                                                                                                                                                                                                double real = -(P.B / (2 * P.A));
                                                        button_reset_Click(this, e);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          double.Parse(textBox_b.Text);
                                                                                            break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  this.Close();
                                                                                                                         case 2:
                                                                                                                                                                                                                      case 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                case 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          case 5:
case 1:
                                                                                                                                                                                         break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 try
```

```
this.textBox_a.Text = this.textBox_b.Text = this.textBox_c.Text = "";
this.textBox_x.Text = this.textBox_x1.Text = this.textBox_x2.Text = "";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     private void button reset Click(object sender, EventArgs e) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MessageBox.Show("Invalid data in textbox a !!!");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MessageBox.Show("Invalid data in textbox c !!!");
                                                                                                                                                                                                                                                                                                 private void textBox_a_Leave(object sender, EventArgs e) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   private void textBox c Leave (object sender, EventArgs e) {
                                      MessageBox.Show("Invalid data in textbox b!!!");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  double.Parse(textBox c.Text);
                                                                                                                                                                                                                                                                                                                                                                                double.Parse(textBox a.Text);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 this.textBox_a.Text = "";
this.textBox_a.Select();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    this.textBox_c.Text = "";
this.textBox_c.Select();
                                                                               this.textBox_b.Text = "";
this.textBox_b.Select();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                catch (System.Exception) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    catch (System.Exception) {
catch (System.Exception) {
```