Họ Và Tên: LÊ HỮU HOÀN

Lớp: Lập Trình C# 3

Home work 06/10/2023

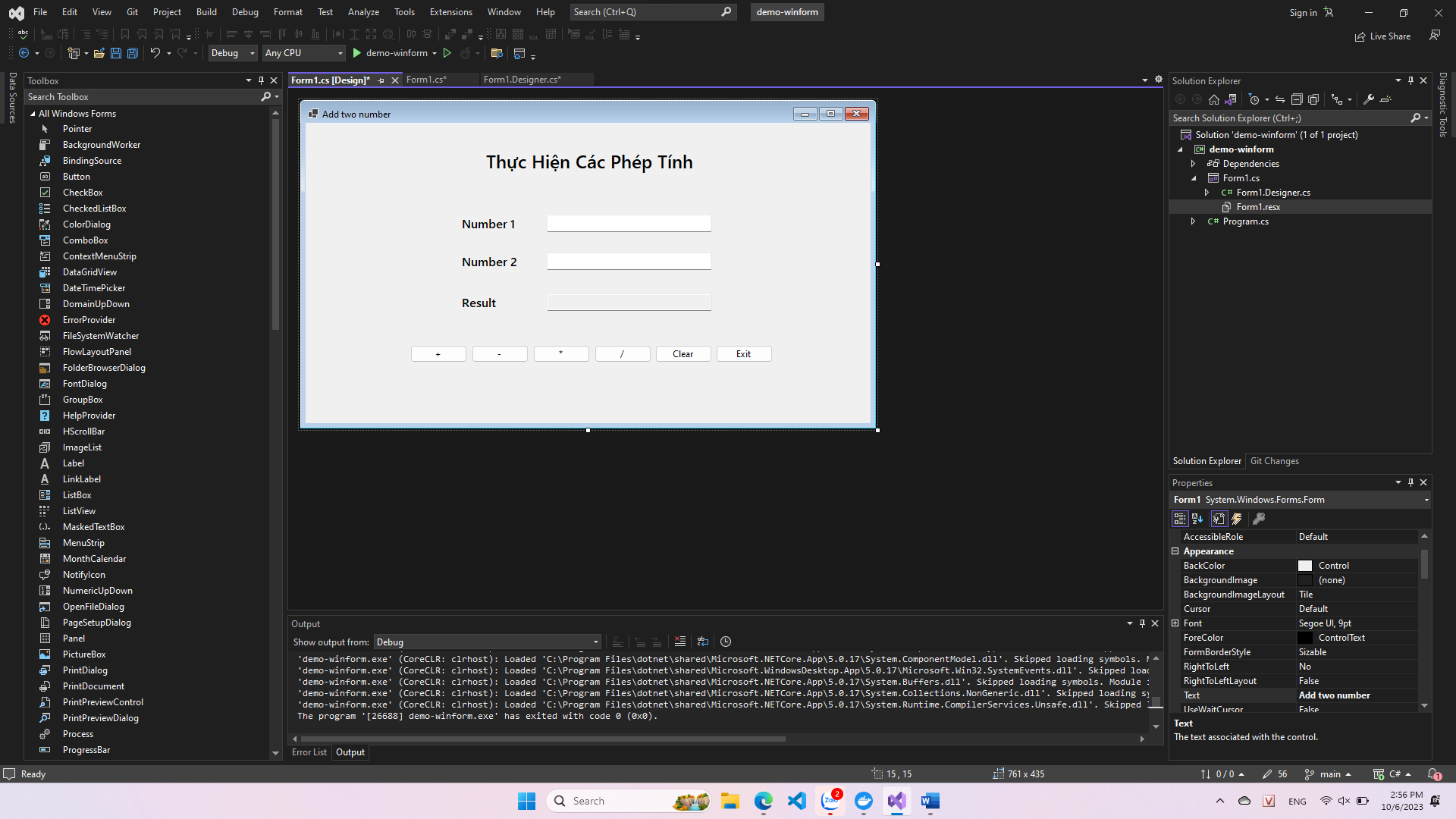
LAB 03

Kết quả tạo project

A computer screen with a black screen

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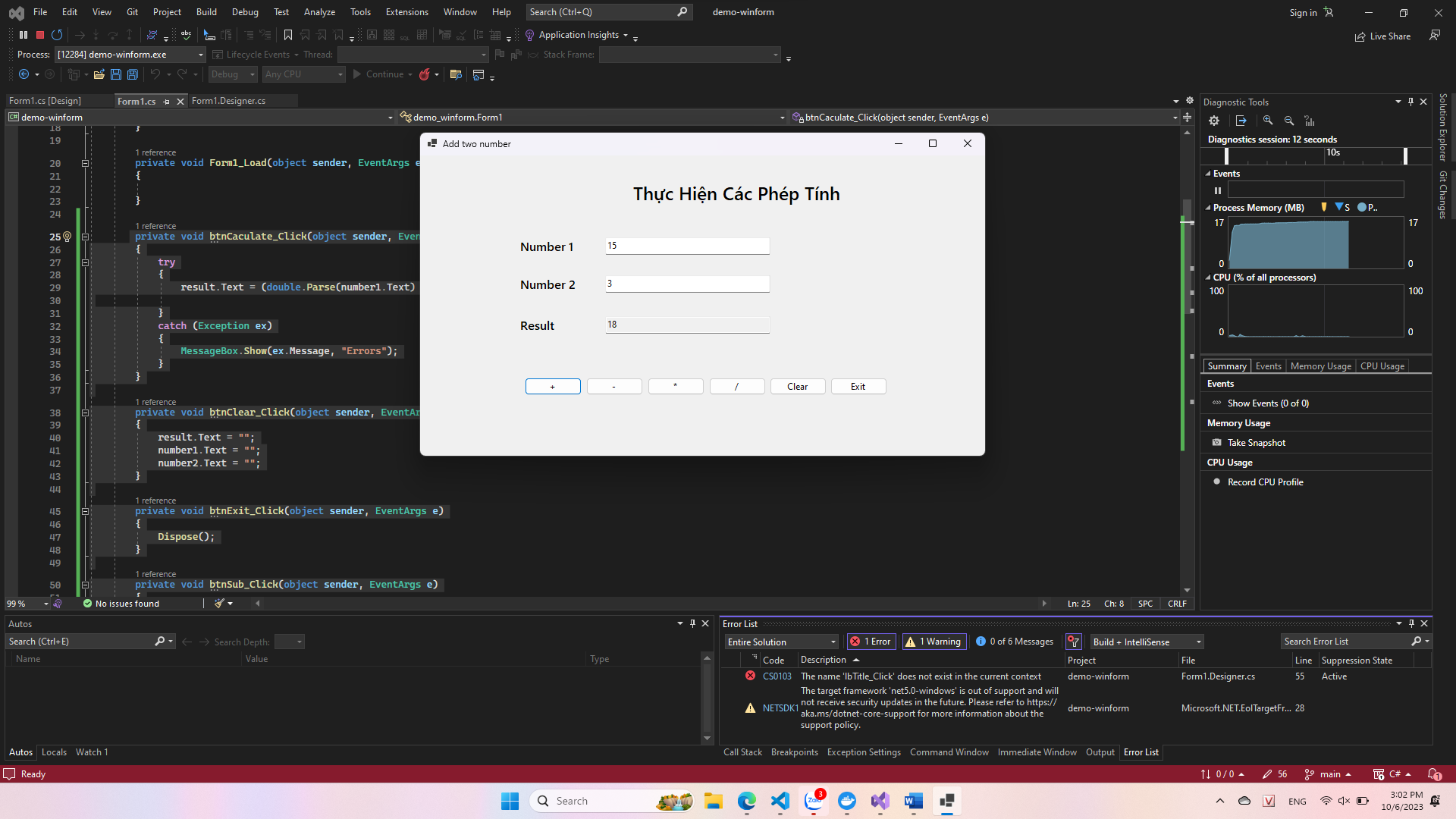
Kết quả sau khi kéo thả



Thêm sự kiện cho các button

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| private void btnCaculate\_Click(object sender, EventArgs e)  {  try  {  result.Text = (double.Parse(number1.Text) + double.Parse(number2.Text)).ToString();  }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }  }  private void btnClear\_Click(object sender, EventArgs e)  {  result.Text = "";  number1.Text = "";  number2.Text = "";  }  private void btnExit\_Click(object sender, EventArgs e)  {  Dispose();  }  private void btnSub\_Click(object sender, EventArgs e)  {  try  {  result.Text = (double.Parse(number1.Text) - double.Parse(number2.Text)).ToString();  }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }  }  private void btnMul\_Click(object sender, EventArgs e)  {  try  {  result.Text = (double.Parse(number1.Text) \* double.Parse(number2.Text)).ToString();  }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }  }  private void btnDiv\_Click(object sender, EventArgs e)  {  try  {  result.Text = (double.Parse(number1.Text) / double.Parse(number2.Text)).ToString();  }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }  } |

Kết quả



Code :

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| using System;  using System.Collections.Generic;  using System.ComponentModel;  using System.Data;  using System.Drawing;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace demo\_winform  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void Form1\_Load(object sender, EventArgs e)  {  }  private void btnCaculate\_Click(object sender, EventArgs e)  {  try  {  result.Text = (double.Parse(number1.Text) + double.Parse(number2.Text)).ToString();  }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }  }  private void btnClear\_Click(object sender, EventArgs e)  {  result.Text = "";  number1.Text = "";  number2.Text = "";  }  private void btnExit\_Click(object sender, EventArgs e)  {  Dispose();  }  private void btnSub\_Click(object sender, EventArgs e)  {  try  {  result.Text = (double.Parse(number1.Text) - double.Parse(number2.Text)).ToString();  }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }  }  private void btnMul\_Click(object sender, EventArgs e)  {  try  {  result.Text = (double.Parse(number1.Text) \* double.Parse(number2.Text)).ToString();  }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }  }  private void btnDiv\_Click(object sender, EventArgs e)  {  try  {  result.Text = (double.Parse(number1.Text) / double.Parse(number2.Text)).ToString();  }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }  }  }  } |

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| namespace demo\_winform  {  partial class Form1  {  /// <summary>  /// Required designer variable.  /// </summary>  private System.ComponentModel.IContainer components = null;  /// <summary>  /// Clean up any resources being used.  /// </summary>  /// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>  protected override void Dispose(bool disposing)  {  if (disposing && (components != null))  {  components.Dispose();  }  base.Dispose(disposing);  }  #region Windows Form Designer generated code  /// <summary>  /// Required method for Designer support - do not modify  /// the contents of this method with the code editor.  /// </summary>  private void InitializeComponent()  {  lbTitle = new System.Windows.Forms.Label();  txtNumber1 = new System.Windows.Forms.Label();  txtNumber2 = new System.Windows.Forms.Label();  number1 = new System.Windows.Forms.TextBox();  number2 = new System.Windows.Forms.TextBox();  result = new System.Windows.Forms.TextBox();  lbResult = new System.Windows.Forms.Label();  btnCaculate = new System.Windows.Forms.Button();  btnClear = new System.Windows.Forms.Button();  btnExit = new System.Windows.Forms.Button();  btnSub = new System.Windows.Forms.Button();  btnDiv = new System.Windows.Forms.Button();  btnMul = new System.Windows.Forms.Button();  SuspendLayout();  //  // lbTitle  //  lbTitle.AutoSize = true;  lbTitle.Font = new System.Drawing.Font("Segoe UI Semibold", 18F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point);  lbTitle.Location = new System.Drawing.Point(232, 34);  lbTitle.Name = "lbTitle";  lbTitle.Size = new System.Drawing.Size(287, 32);  lbTitle.TabIndex = 0;  lbTitle.Text = "Thực Hiện Các Phép Tính";  //  // txtNumber1  //  txtNumber1.AutoSize = true;  txtNumber1.Font = new System.Drawing.Font("Segoe UI Semibold", 12F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point);  txtNumber1.Location = new System.Drawing.Point(202, 122);  txtNumber1.Name = "txtNumber1";  txtNumber1.Size = new System.Drawing.Size(80, 21);  txtNumber1.TabIndex = 1;  txtNumber1.Text = "Number 1";  txtNumber1.TextAlign = System.Drawing.ContentAlignment.MiddleLeft;  //  // txtNumber2  //  txtNumber2.AutoSize = true;  txtNumber2.Font = new System.Drawing.Font("Segoe UI Semibold", 12F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point);  txtNumber2.Location = new System.Drawing.Point(202, 172);  txtNumber2.Name = "txtNumber2";  txtNumber2.Size = new System.Drawing.Size(83, 21);  txtNumber2.TabIndex = 2;  txtNumber2.Text = "Number 2";  txtNumber2.TextAlign = System.Drawing.ContentAlignment.MiddleLeft;  //  // number1  //  number1.Location = new System.Drawing.Point(318, 121);  number1.Name = "number1";  number1.Size = new System.Drawing.Size(218, 23);  number1.TabIndex = 3;  //  // number2  //  number2.Location = new System.Drawing.Point(318, 171);  number2.Name = "number2";  number2.Size = new System.Drawing.Size(218, 23);  number2.TabIndex = 4;  //  // result  //  result.Location = new System.Drawing.Point(318, 225);  result.Name = "result";  result.ReadOnly = true;  result.Size = new System.Drawing.Size(218, 23);  result.TabIndex = 6;  //  // lbResult  //  lbResult.AutoSize = true;  lbResult.Font = new System.Drawing.Font("Segoe UI Semibold", 12F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point);  lbResult.Location = new System.Drawing.Point(202, 226);  lbResult.Name = "lbResult";  lbResult.Size = new System.Drawing.Size(55, 21);  lbResult.TabIndex = 5;  lbResult.Text = "Result";  lbResult.TextAlign = System.Drawing.ContentAlignment.MiddleLeft;  //  // btnCaculate  //  btnCaculate.Location = new System.Drawing.Point(138, 293);  btnCaculate.Name = "btnCaculate";  btnCaculate.Size = new System.Drawing.Size(75, 23);  btnCaculate.TabIndex = 7;  btnCaculate.Text = "+";  btnCaculate.UseVisualStyleBackColor = true;  btnCaculate.Click += btnCaculate\_Click;  //  // btnClear  //  btnClear.Location = new System.Drawing.Point(461, 293);  btnClear.Name = "btnClear";  btnClear.Size = new System.Drawing.Size(75, 23);  btnClear.TabIndex = 8;  btnClear.Text = "Clear";  btnClear.UseVisualStyleBackColor = true;  btnClear.Click += btnClear\_Click;  //  // btnExit  //  btnExit.Location = new System.Drawing.Point(541, 293);  btnExit.Name = "btnExit";  btnExit.Size = new System.Drawing.Size(75, 23);  btnExit.TabIndex = 9;  btnExit.Text = "Exit";  btnExit.UseVisualStyleBackColor = true;  btnExit.Click += btnExit\_Click;  //  // btnSub  //  btnSub.Location = new System.Drawing.Point(219, 293);  btnSub.Name = "btnSub";  btnSub.RightToLeft = System.Windows.Forms.RightToLeft.No;  btnSub.Size = new System.Drawing.Size(75, 23);  btnSub.TabIndex = 10;  btnSub.Text = "-";  btnSub.UseVisualStyleBackColor = true;  btnSub.Click += btnSub\_Click;  //  // btnDiv  //  btnDiv.Location = new System.Drawing.Point(381, 293);  btnDiv.Name = "btnDiv";  btnDiv.RightToLeft = System.Windows.Forms.RightToLeft.No;  btnDiv.Size = new System.Drawing.Size(75, 23);  btnDiv.TabIndex = 12;  btnDiv.Text = "/";  btnDiv.UseVisualStyleBackColor = true;  btnDiv.Click += btnDiv\_Click;  //  // btnMul  //  btnMul.Location = new System.Drawing.Point(300, 293);  btnMul.Name = "btnMul";  btnMul.Size = new System.Drawing.Size(75, 23);  btnMul.TabIndex = 11;  btnMul.Text = "\*";  btnMul.UseVisualStyleBackColor = true;  btnMul.Click += btnMul\_Click;  //  // Form1  //  AutoScaleDimensions = new System.Drawing.SizeF(7F, 15F);  AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;  ClientSize = new System.Drawing.Size(745, 396);  Controls.Add(btnDiv);  Controls.Add(btnMul);  Controls.Add(btnSub);  Controls.Add(btnExit);  Controls.Add(btnClear);  Controls.Add(btnCaculate);  Controls.Add(result);  Controls.Add(lbResult);  Controls.Add(number2);  Controls.Add(number1);  Controls.Add(txtNumber2);  Controls.Add(txtNumber1);  Controls.Add(lbTitle);  Name = "Form1";  Text = "Add two number";  Load += Form1\_Load;  ResumeLayout(false);  PerformLayout();  }  #endregion  private System.Windows.Forms.Label lbTitle;  private System.Windows.Forms.Label txtNumber1;  private System.Windows.Forms.Label txtNumber2;  private System.Windows.Forms.TextBox number1;  private System.Windows.Forms.TextBox number2;  private System.Windows.Forms.TextBox result;  private System.Windows.Forms.Label lbResult;  private System.Windows.Forms.Button btnCaculate;  private System.Windows.Forms.Button btnClear;  private System.Windows.Forms.Button btnExit;  private System.Windows.Forms.Button btnSub;  private System.Windows.Forms.Button btnDiv;  private System.Windows.Forms.Button btnMul;  }  } |

BÀI 2:

A screenshot of a computer

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CODE:

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| using System;  using System.Collections.Generic;  using System.ComponentModel;  using System.Data;  using System.Drawing;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace frmUocboi  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void btnExit\_Click(object sender, EventArgs e)  {  DialogResult res= MessageBox.Show("Bạn thật sự muốn thoát?", "Thông báo", MessageBoxButtons.YesNo);  if (res == DialogResult.Yes)  {  base.Close();  }  }  private void btnSkip\_Click(object sender, EventArgs e)  {  txtA.Text = string.Empty;  txtB.Text = string.Empty;  txtResult.Text = string.Empty;  uscln.Checked = false;  bscnn.Checked = false;  }  private void find\_Click(object sender, EventArgs e)  {  try  {  if (bscnn.Checked == true)  {  txtResult.Text = BSCNN(double.Parse(txtA.Text), double.Parse(txtB.Text)).ToString();  }  else  if (uscln.Checked == true)  {  txtResult.Text = USCLN(double.Parse(txtA.Text), double.Parse(txtB.Text)).ToString();  }    }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }    }  private double USCLN(double a, double b)  {  if (b == 0) return a;  return USCLN(b, a % b);  }  private double BSCNN(double a, double b)  {  return (a \* b) / USCLN(a, b);  }  }  } |

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| namespace frmUocboi  {  partial class Form1  {  /// <summary>  /// Required designer variable.  /// </summary>  private System.ComponentModel.IContainer components = null;  /// <summary>  /// Clean up any resources being used.  /// </summary>  /// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>  protected override void Dispose(bool disposing)  {  if (disposing && (components != null))  {  components.Dispose();  }  base.Dispose(disposing);  }  #region Windows Form Designer generated code  /// <summary>  /// Required method for Designer support - do not modify  /// the contents of this method with the code editor.  /// </summary>  private void InitializeComponent()  {  grInput = new System.Windows.Forms.GroupBox();  txtB = new System.Windows.Forms.TextBox();  txtA = new System.Windows.Forms.TextBox();  lbB = new System.Windows.Forms.Label();  lbA = new System.Windows.Forms.Label();  grChoose = new System.Windows.Forms.GroupBox();  bscnn = new System.Windows.Forms.RadioButton();  uscln = new System.Windows.Forms.RadioButton();  grResult = new System.Windows.Forms.GroupBox();  txtResult = new System.Windows.Forms.TextBox();  find = new System.Windows.Forms.Button();  btnExit = new System.Windows.Forms.Button();  btnSkip = new System.Windows.Forms.Button();  grInput.SuspendLayout();  grChoose.SuspendLayout();  grResult.SuspendLayout();  SuspendLayout();  //  // grInput  //  grInput.Controls.Add(txtB);  grInput.Controls.Add(txtA);  grInput.Controls.Add(lbB);  grInput.Controls.Add(lbA);  grInput.Font = new System.Drawing.Font("Segoe UI", 12F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point);  grInput.Location = new System.Drawing.Point(6, 6);  grInput.Name = "grInput";  grInput.Size = new System.Drawing.Size(577, 246);  grInput.TabIndex = 0;  grInput.TabStop = false;  grInput.Text = "Nhập ";  //  // txtB  //  txtB.Location = new System.Drawing.Point(117, 109);  txtB.Name = "txtB";  txtB.Size = new System.Drawing.Size(343, 29);  txtB.TabIndex = 3;  //  // txtA  //  txtA.Location = new System.Drawing.Point(117, 57);  txtA.Name = "txtA";  txtA.Size = new System.Drawing.Size(343, 29);  txtA.TabIndex = 2;  //  // lbB  //  lbB.AutoSize = true;  lbB.Location = new System.Drawing.Point(26, 106);  lbB.Name = "lbB";  lbB.Size = new System.Drawing.Size(19, 21);  lbB.TabIndex = 1;  lbB.Text = "B";  //  // lbA  //  lbA.AutoSize = true;  lbA.Location = new System.Drawing.Point(25, 61);  lbA.Name = "lbA";  lbA.Size = new System.Drawing.Size(20, 21);  lbA.TabIndex = 0;  lbA.Text = "A";  //  // grChoose  //  grChoose.Controls.Add(bscnn);  grChoose.Controls.Add(uscln);  grChoose.Font = new System.Drawing.Font("Segoe UI", 12F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point);  grChoose.Location = new System.Drawing.Point(589, 6);  grChoose.Name = "grChoose";  grChoose.Size = new System.Drawing.Size(201, 246);  grChoose.TabIndex = 1;  grChoose.TabStop = false;  grChoose.Text = "Chọn Tìm";  //  // bscnn  //  bscnn.AutoSize = true;  bscnn.Location = new System.Drawing.Point(61, 111);  bscnn.Name = "bscnn";  bscnn.Size = new System.Drawing.Size(80, 25);  bscnn.TabIndex = 1;  bscnn.TabStop = true;  bscnn.Text = "BSCNN";  bscnn.UseVisualStyleBackColor = true;  //  // uscln  //  uscln.AutoSize = true;  uscln.Location = new System.Drawing.Point(61, 56);  uscln.Name = "uscln";  uscln.Size = new System.Drawing.Size(78, 25);  uscln.TabIndex = 0;  uscln.TabStop = true;  uscln.Text = "USCLN";  uscln.UseVisualStyleBackColor = true;  //  // grResult  //  grResult.Controls.Add(btnSkip);  grResult.Controls.Add(btnExit);  grResult.Controls.Add(find);  grResult.Controls.Add(txtResult);  grResult.Font = new System.Drawing.Font("Segoe UI", 12F, System.Drawing.FontStyle.Regular, System.Drawing.GraphicsUnit.Point);  grResult.Location = new System.Drawing.Point(6, 260);  grResult.Name = "grResult";  grResult.Size = new System.Drawing.Size(784, 178);  grResult.TabIndex = 2;  grResult.TabStop = false;  grResult.Text = "Kết quả";  //  // txtResult  //  txtResult.Location = new System.Drawing.Point(110, 45);  txtResult.Name = "txtResult";  txtResult.ReadOnly = true;  txtResult.Size = new System.Drawing.Size(355, 29);  txtResult.TabIndex = 0;  //  // find  //  find.Location = new System.Drawing.Point(110, 113);  find.Name = "find";  find.Size = new System.Drawing.Size(78, 25);  find.TabIndex = 1;  find.Text = "Tìm";  find.UseVisualStyleBackColor = true;  find.Click += find\_Click;  //  // btnExit  //  btnExit.Location = new System.Drawing.Point(390, 113);  btnExit.Name = "btnExit";  btnExit.Size = new System.Drawing.Size(75, 25);  btnExit.TabIndex = 2;  btnExit.Text = "Thoát";  btnExit.UseVisualStyleBackColor = true;  btnExit.Click += btnExit\_Click;  //  // btnSkip  //  btnSkip.Location = new System.Drawing.Point(256, 113);  btnSkip.Name = "btnSkip";  btnSkip.Size = new System.Drawing.Size(75, 25);  btnSkip.TabIndex = 3;  btnSkip.Text = "Bỏ qua";  btnSkip.UseVisualStyleBackColor = true;  btnSkip.Click += btnSkip\_Click;  //  // Form1  //  AutoScaleDimensions = new System.Drawing.SizeF(7F, 15F);  AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;  ClientSize = new System.Drawing.Size(800, 450);  Controls.Add(grResult);  Controls.Add(grChoose);  Controls.Add(grInput);  Name = "Form1";  Text = "Form1";  grInput.ResumeLayout(false);  grInput.PerformLayout();  grChoose.ResumeLayout(false);  grChoose.PerformLayout();  grResult.ResumeLayout(false);  grResult.PerformLayout();  ResumeLayout(false);  }  #endregion  private System.Windows.Forms.GroupBox grInput;  private System.Windows.Forms.GroupBox grChoose;  private System.Windows.Forms.GroupBox grResult;  private System.Windows.Forms.TextBox txtA;  private System.Windows.Forms.Label lbB;  private System.Windows.Forms.Label lbA;  private System.Windows.Forms.TextBox txtB;  private System.Windows.Forms.RadioButton bscnn;  private System.Windows.Forms.RadioButton uscln;  private System.Windows.Forms.Button btnExit;  private System.Windows.Forms.Button find;  private System.Windows.Forms.TextBox txtResult;  private System.Windows.Forms.Button btnSkip;  }  } |

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| using System;  using System.Collections.Generic;  using System.Linq;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace frmUocboi  {  internal static class Program  {  /// <summary>  /// The main entry point for the application.  /// </summary>  [STAThread]  static void Main()  {  Application.SetHighDpiMode(HighDpiMode.SystemAware);  Application.EnableVisualStyles();  Application.SetCompatibleTextRenderingDefault(false);  Application.Run(new Form1());  }  }  } |

Bài 3:

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Code

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| using System;  using System.Collections.Generic;  using System.ComponentModel;  using System.Data;  using System.Drawing;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace SecurityPanel  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void Form1\_Load(object sender, EventArgs e)  {  }  private void btn1\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "1";  }  private void btn2\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "2";  }  private void btn3\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "3";  }  private void btn4\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "4";  }  private void btn5\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "5";  }  private void btn6\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "6";  }  private void btn7\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "7";  }  private void btn8\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "8";  }  private void btn9\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "9";  }  private void btn0\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "0";  }  private void btnEnter\_Click(object sender, EventArgs e)  {  int[] access = { 1645, 1689, 8345, 9998, 1006, 1008 };  int code = int.Parse(txtSecurityCode.Text);  switch (code)  {  case 1645:  case 1689:  listBox.Items.Add($"{DateTime.Now.ToString()} Technicians");  break;  case 8345:  listBox.Items.Add($"{DateTime.Now.ToString()} Custodians");  break;  case 9998:  case 1006:  case 1008:  listBox.Items.Add($"{DateTime.Now.ToString()} Scientist");  break;  default:  listBox.Items.Add($"{DateTime.Now.ToString()} Restricted Access!");  break;  }  }  private void btnc\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text = "";  }  }  } |

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| namespace SecurityPanel  {  partial class Form1  {  /// <summary>  /// Required designer variable.  /// </summary>  private System.ComponentModel.IContainer components = null;  /// <summary>  /// Clean up any resources being used.  /// </summary>  /// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>  protected override void Dispose(bool disposing)  {  if (disposing && (components != null))  {  components.Dispose();  }  base.Dispose(disposing);  }  #region Windows Form Designer generated code  /// <summary>  /// Required method for Designer support - do not modify  /// the contents of this method with the code editor.  /// </summary>  private void InitializeComponent()  {  lbSecurityCode = new System.Windows.Forms.Label();  txtSecurityCode = new System.Windows.Forms.TextBox();  btn1 = new System.Windows.Forms.Button();  btn2 = new System.Windows.Forms.Button();  btn3 = new System.Windows.Forms.Button();  btn4 = new System.Windows.Forms.Button();  btn5 = new System.Windows.Forms.Button();  btn6 = new System.Windows.Forms.Button();  btn7 = new System.Windows.Forms.Button();  btn8 = new System.Windows.Forms.Button();  btn9 = new System.Windows.Forms.Button();  btn0 = new System.Windows.Forms.Button();  btnc = new System.Windows.Forms.Button();  btnEnter = new System.Windows.Forms.Button();  listBox = new System.Windows.Forms.ListBox();  SuspendLayout();  //  // lbSecurityCode  //  lbSecurityCode.AutoSize = true;  lbSecurityCode.Font = new System.Drawing.Font("Segoe UI Semibold", 12F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point);  lbSecurityCode.Location = new System.Drawing.Point(32, 23);  lbSecurityCode.Name = "lbSecurityCode";  lbSecurityCode.Size = new System.Drawing.Size(112, 21);  lbSecurityCode.TabIndex = 0;  lbSecurityCode.Text = "Security Code";  //  // txtSecurityCode  //  txtSecurityCode.Font = new System.Drawing.Font("Segoe UI Semibold", 12F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point);  txtSecurityCode.Location = new System.Drawing.Point(166, 22);  txtSecurityCode.Name = "txtSecurityCode";  txtSecurityCode.PasswordChar = '\*';  txtSecurityCode.ReadOnly = true;  txtSecurityCode.Size = new System.Drawing.Size(198, 29);  txtSecurityCode.TabIndex = 1;  //  // btn1  //  btn1.Location = new System.Drawing.Point(85, 104);  btn1.Name = "btn1";  btn1.Size = new System.Drawing.Size(40, 40);  btn1.TabIndex = 2;  btn1.Text = "1";  btn1.UseVisualStyleBackColor = true;  btn1.Click += btn1\_Click;  //  // btn2  //  btn2.Location = new System.Drawing.Point(145, 104);  btn2.Name = "btn2";  btn2.Size = new System.Drawing.Size(40, 40);  btn2.TabIndex = 3;  btn2.Text = "2";  btn2.UseVisualStyleBackColor = true;  btn2.Click += btn2\_Click;  //  // btn3  //  btn3.Location = new System.Drawing.Point(206, 104);  btn3.Name = "btn3";  btn3.Size = new System.Drawing.Size(40, 40);  btn3.TabIndex = 4;  btn3.Text = "3";  btn3.UseVisualStyleBackColor = true;  btn3.Click += btn3\_Click;  //  // btn4  //  btn4.Location = new System.Drawing.Point(85, 160);  btn4.Name = "btn4";  btn4.Size = new System.Drawing.Size(40, 40);  btn4.TabIndex = 5;  btn4.Text = "4";  btn4.UseVisualStyleBackColor = true;  btn4.Click += btn4\_Click;  //  // btn5  //  btn5.Location = new System.Drawing.Point(145, 160);  btn5.Name = "btn5";  btn5.Size = new System.Drawing.Size(40, 40);  btn5.TabIndex = 9;  btn5.Text = "5";  btn5.UseVisualStyleBackColor = true;  btn5.Click += btn5\_Click;  //  // btn6  //  btn6.Location = new System.Drawing.Point(206, 160);  btn6.Name = "btn6";  btn6.Size = new System.Drawing.Size(40, 40);  btn6.TabIndex = 8;  btn6.Text = "6";  btn6.UseVisualStyleBackColor = true;  btn6.Click += btn6\_Click;  //  // btn7  //  btn7.Location = new System.Drawing.Point(85, 215);  btn7.Name = "btn7";  btn7.Size = new System.Drawing.Size(40, 40);  btn7.TabIndex = 7;  btn7.Text = "7";  btn7.UseVisualStyleBackColor = true;  btn7.Click += btn7\_Click;  //  // btn8  //  btn8.Location = new System.Drawing.Point(145, 215);  btn8.Name = "btn8";  btn8.Size = new System.Drawing.Size(40, 40);  btn8.TabIndex = 6;  btn8.Text = "8";  btn8.UseVisualStyleBackColor = true;  btn8.Click += btn8\_Click;  //  // btn9  //  btn9.Location = new System.Drawing.Point(206, 215);  btn9.Name = "btn9";  btn9.Size = new System.Drawing.Size(40, 40);  btn9.TabIndex = 13;  btn9.Text = "9";  btn9.UseVisualStyleBackColor = true;  btn9.Click += btn9\_Click;  //  // btn0  //  btn0.Location = new System.Drawing.Point(267, 215);  btn0.Name = "btn0";  btn0.Size = new System.Drawing.Size(40, 40);  btn0.TabIndex = 12;  btn0.Text = "0";  btn0.UseVisualStyleBackColor = true;  btn0.Click += btn0\_Click;  //  // btnc  //  btnc.Location = new System.Drawing.Point(267, 104);  btnc.Name = "btnc";  btnc.Size = new System.Drawing.Size(40, 40);  btnc.TabIndex = 11;  btnc.Text = "C";  btnc.UseVisualStyleBackColor = true;  btnc.Click += btnc\_Click;  //  // btnEnter  //  btnEnter.Location = new System.Drawing.Point(267, 160);  btnEnter.Name = "btnEnter";  btnEnter.Size = new System.Drawing.Size(40, 40);  btnEnter.TabIndex = 10;  btnEnter.Text = "#";  btnEnter.UseVisualStyleBackColor = true;  btnEnter.Click += btnEnter\_Click;  //  // listBox  //  listBox.FormattingEnabled = true;  listBox.ItemHeight = 15;  listBox.Location = new System.Drawing.Point(12, 291);  listBox.Name = "listBox";  listBox.Size = new System.Drawing.Size(394, 139);  listBox.TabIndex = 14;  //  // Form1  //  AutoScaleDimensions = new System.Drawing.SizeF(7F, 15F);  AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;  ClientSize = new System.Drawing.Size(418, 450);  Controls.Add(listBox);  Controls.Add(btn9);  Controls.Add(btn0);  Controls.Add(btnc);  Controls.Add(btnEnter);  Controls.Add(btn5);  Controls.Add(btn6);  Controls.Add(btn7);  Controls.Add(btn8);  Controls.Add(btn4);  Controls.Add(btn3);  Controls.Add(btn2);  Controls.Add(btn1);  Controls.Add(txtSecurityCode);  Controls.Add(lbSecurityCode);  Name = "Form1";  Text = "Form1";  Load += Form1\_Load;  ResumeLayout(false);  PerformLayout();  }  #endregion  private System.Windows.Forms.Label lbSecurityCode;  private System.Windows.Forms.TextBox txtSecurityCode;  private System.Windows.Forms.Button btn1;  private System.Windows.Forms.Button btn2;  private System.Windows.Forms.Button btn3;  private System.Windows.Forms.Button btn4;  private System.Windows.Forms.Button btn5;  private System.Windows.Forms.Button btn6;  private System.Windows.Forms.Button btn7;  private System.Windows.Forms.Button btn8;  private System.Windows.Forms.Button btn9;  private System.Windows.Forms.Button btn0;  private System.Windows.Forms.Button btnc;  private System.Windows.Forms.Button btnEnter;  private System.Windows.Forms.Button button13;  private System.Windows.Forms.Button button14;  private System.Windows.Forms.Button button15;  private System.Windows.Forms.Button button16;  private System.Windows.Forms.ListBox listBox;  }  } |

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| using System;  using System.Collections.Generic;  using System.Linq;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace SecurityPanel  {  internal static class Program  {  /// <summary>  /// The main entry point for the application.  /// </summary>  [STAThread]  static void Main()  {  Application.SetHighDpiMode(HighDpiMode.SystemAware);  Application.EnableVisualStyles();  Application.SetCompatibleTextRenderingDefault(false);  Application.Run(new Form1());  }  }  } |

Bài 4

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Code

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| using System;  using System.Collections.Generic;  using System.ComponentModel;  using System.Data;  using System.Drawing;  using System.IO;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace SecurityPanel  {  public partial class Form1 : Form  {  public Form1()  {  InitializeComponent();  }  private void btn1\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "1";  }  private void btn2\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "2";  }  private void btn3\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "3";  }  private void btn4\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "4";  }  private void btn5\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "5";  }  private void btn6\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "6";  }  private void btn7\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "7";  }  private void btn8\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "8";  }  private void btn9\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "9";  }  private void btn0\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text += "0";  }  private void btnEnter\_Click(object sender, EventArgs e)  {  try  {  string msg;  int code = int.Parse(txtSecurityCode.Text);  switch (code)  {  case 1645:  case 1689:  msg = $"{DateTime.Now.ToString()} Technicians";  break;  case 8345:  msg = $"{DateTime.Now.ToString()} Custodians";  break;  case 9998:  case 1006:  case 1008:  msg = $"{DateTime.Now.ToString()} Scientist";  break;  default:  msg = $"{DateTime.Now.ToString()} Restricted Access!";  break;  }  listBox.Items.Add(msg);  string filepath = "D:\\LEARN\\C#\\lab\\demo-winform\\SecurityPanel\\log.txt";  using (var stream = File.AppendText(path: filepath))  {  stream.WriteLine(msg);  }  }  catch (Exception ex)  {  MessageBox.Show(ex.Message, "Errors");  }  }  private void btnc\_Click(object sender, EventArgs e)  {  txtSecurityCode.Text = "";  }  }  } |

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| namespace SecurityPanel  {  partial class Form1  {  /// <summary>  /// Required designer variable.  /// </summary>  private System.ComponentModel.IContainer components = null;  /// <summary>  /// Clean up any resources being used.  /// </summary>  /// <param name="disposing">true if managed resources should be disposed; otherwise, false.</param>  protected override void Dispose(bool disposing)  {  if (disposing && (components != null))  {  components.Dispose();  }  base.Dispose(disposing);  }  #region Windows Form Designer generated code  /// <summary>  /// Required method for Designer support - do not modify  /// the contents of this method with the code editor.  /// </summary>  private void InitializeComponent()  {  lbSecurityCode = new System.Windows.Forms.Label();  txtSecurityCode = new System.Windows.Forms.TextBox();  btn1 = new System.Windows.Forms.Button();  btn2 = new System.Windows.Forms.Button();  btn3 = new System.Windows.Forms.Button();  btn4 = new System.Windows.Forms.Button();  btn5 = new System.Windows.Forms.Button();  btn6 = new System.Windows.Forms.Button();  btn7 = new System.Windows.Forms.Button();  btn8 = new System.Windows.Forms.Button();  btn9 = new System.Windows.Forms.Button();  btn0 = new System.Windows.Forms.Button();  btnc = new System.Windows.Forms.Button();  btnEnter = new System.Windows.Forms.Button();  listBox = new System.Windows.Forms.ListBox();  SuspendLayout();  //  // lbSecurityCode  //  lbSecurityCode.AutoSize = true;  lbSecurityCode.Font = new System.Drawing.Font("Segoe UI Semibold", 12F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point);  lbSecurityCode.Location = new System.Drawing.Point(32, 23);  lbSecurityCode.Name = "lbSecurityCode";  lbSecurityCode.Size = new System.Drawing.Size(112, 21);  lbSecurityCode.TabIndex = 0;  lbSecurityCode.Text = "Security Code";  //  // txtSecurityCode  //  txtSecurityCode.Font = new System.Drawing.Font("Segoe UI Semibold", 12F, System.Drawing.FontStyle.Bold, System.Drawing.GraphicsUnit.Point);  txtSecurityCode.Location = new System.Drawing.Point(166, 22);  txtSecurityCode.Name = "txtSecurityCode";  txtSecurityCode.PasswordChar = '\*';  txtSecurityCode.Size = new System.Drawing.Size(198, 29);  txtSecurityCode.TabIndex = 1;  //  // btn1  //  btn1.Location = new System.Drawing.Point(85, 104);  btn1.Name = "btn1";  btn1.Size = new System.Drawing.Size(40, 40);  btn1.TabIndex = 2;  btn1.Text = "1";  btn1.UseVisualStyleBackColor = true;  btn1.Click += btn1\_Click;  //  // btn2  //  btn2.Location = new System.Drawing.Point(145, 104);  btn2.Name = "btn2";  btn2.Size = new System.Drawing.Size(40, 40);  btn2.TabIndex = 3;  btn2.Text = "2";  btn2.UseVisualStyleBackColor = true;  btn2.Click += btn2\_Click;  //  // btn3  //  btn3.Location = new System.Drawing.Point(206, 104);  btn3.Name = "btn3";  btn3.Size = new System.Drawing.Size(40, 40);  btn3.TabIndex = 4;  btn3.Text = "3";  btn3.UseVisualStyleBackColor = true;  btn3.Click += btn3\_Click;  //  // btn4  //  btn4.Location = new System.Drawing.Point(85, 160);  btn4.Name = "btn4";  btn4.Size = new System.Drawing.Size(40, 40);  btn4.TabIndex = 5;  btn4.Text = "4";  btn4.UseVisualStyleBackColor = true;  btn4.Click += btn4\_Click;  //  // btn5  //  btn5.Location = new System.Drawing.Point(145, 160);  btn5.Name = "btn5";  btn5.Size = new System.Drawing.Size(40, 40);  btn5.TabIndex = 9;  btn5.Text = "5";  btn5.UseVisualStyleBackColor = true;  btn5.Click += btn5\_Click;  //  // btn6  //  btn6.Location = new System.Drawing.Point(206, 160);  btn6.Name = "btn6";  btn6.Size = new System.Drawing.Size(40, 40);  btn6.TabIndex = 8;  btn6.Text = "6";  btn6.UseVisualStyleBackColor = true;  btn6.Click += btn6\_Click;  //  // btn7  //  btn7.Location = new System.Drawing.Point(85, 215);  btn7.Name = "btn7";  btn7.Size = new System.Drawing.Size(40, 40);  btn7.TabIndex = 7;  btn7.Text = "7";  btn7.UseVisualStyleBackColor = true;  btn7.Click += btn7\_Click;  //  // btn8  //  btn8.Location = new System.Drawing.Point(145, 215);  btn8.Name = "btn8";  btn8.Size = new System.Drawing.Size(40, 40);  btn8.TabIndex = 6;  btn8.Text = "8";  btn8.UseVisualStyleBackColor = true;  btn8.Click += btn8\_Click;  //  // btn9  //  btn9.Location = new System.Drawing.Point(206, 215);  btn9.Name = "btn9";  btn9.Size = new System.Drawing.Size(40, 40);  btn9.TabIndex = 13;  btn9.Text = "9";  btn9.UseVisualStyleBackColor = true;  btn9.Click += btn9\_Click;  //  // btn0  //  btn0.Location = new System.Drawing.Point(267, 215);  btn0.Name = "btn0";  btn0.Size = new System.Drawing.Size(40, 40);  btn0.TabIndex = 12;  btn0.Text = "0";  btn0.UseVisualStyleBackColor = true;  btn0.Click += btn0\_Click;  //  // btnc  //  btnc.Location = new System.Drawing.Point(267, 104);  btnc.Name = "btnc";  btnc.Size = new System.Drawing.Size(40, 40);  btnc.TabIndex = 11;  btnc.Text = "C";  btnc.UseVisualStyleBackColor = true;  btnc.Click += btnc\_Click;  //  // btnEnter  //  btnEnter.Location = new System.Drawing.Point(267, 160);  btnEnter.Name = "btnEnter";  btnEnter.Size = new System.Drawing.Size(40, 40);  btnEnter.TabIndex = 10;  btnEnter.Text = "#";  btnEnter.UseVisualStyleBackColor = true;  btnEnter.Click += btnEnter\_Click;  //  // listBox  //  listBox.FormattingEnabled = true;  listBox.ItemHeight = 15;  listBox.Location = new System.Drawing.Point(12, 291);  listBox.Name = "listBox";  listBox.Size = new System.Drawing.Size(394, 139);  listBox.TabIndex = 14;  //  // Form1  //  AutoScaleDimensions = new System.Drawing.SizeF(7F, 15F);  AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font;  ClientSize = new System.Drawing.Size(418, 450);  Controls.Add(listBox);  Controls.Add(btn9);  Controls.Add(btn0);  Controls.Add(btnc);  Controls.Add(btnEnter);  Controls.Add(btn5);  Controls.Add(btn6);  Controls.Add(btn7);  Controls.Add(btn8);  Controls.Add(btn4);  Controls.Add(btn3);  Controls.Add(btn2);  Controls.Add(btn1);  Controls.Add(txtSecurityCode);  Controls.Add(lbSecurityCode);  Name = "Form1";  Text = "Form1";  ResumeLayout(false);  PerformLayout();  }  #endregion  private System.Windows.Forms.Label lbSecurityCode;  private System.Windows.Forms.TextBox txtSecurityCode;  private System.Windows.Forms.Button btn1;  private System.Windows.Forms.Button btn2;  private System.Windows.Forms.Button btn3;  private System.Windows.Forms.Button btn4;  private System.Windows.Forms.Button btn5;  private System.Windows.Forms.Button btn6;  private System.Windows.Forms.Button btn7;  private System.Windows.Forms.Button btn8;  private System.Windows.Forms.Button btn9;  private System.Windows.Forms.Button btn0;  private System.Windows.Forms.Button btnc;  private System.Windows.Forms.Button btnEnter;  private System.Windows.Forms.Button button13;  private System.Windows.Forms.Button button14;  private System.Windows.Forms.Button button15;  private System.Windows.Forms.Button button16;  private System.Windows.Forms.ListBox listBox;  }  } |

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| using System;  using System.Collections.Generic;  using System.Linq;  using System.Threading.Tasks;  using System.Windows.Forms;  namespace SecurityPanel  {  internal static class Program  {  /// <summary>  /// The main entry point for the application.  /// </summary>  [STAThread]  static void Main()  {  Application.SetHighDpiMode(HighDpiMode.SystemAware);  Application.EnableVisualStyles();  Application.SetCompatibleTextRenderingDefault(false);  Application.Run(new Form1());  }  }  } |