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# **Lab 1**

**Form1.cs**

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 Bai1

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void button1\_Click(object sender, EventArgs e)

{

if (MessageBox.Show("Bạn có muốn mở chương trình", "Message", MessageBoxButtons.OKCancel, MessageBoxIcon.Question) == DialogResult.Cancel)

Dispose();

Form form2 = new Form2();

form2.Show();

}

}

}

**Form2.cs**

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 Bai1

{

public partial class Form2 : Form

{

public Form2()

{

InitializeComponent();

}

private void btnShow\_Click(object sender, EventArgs e)

{

MessageBox.Show("Bạn vừa nhập: " + txtEnter.Text);

}

private void Form2\_KeyDown(object sender, KeyEventArgs e)

{

if (e.Modifiers == Keys.Alt && e.KeyCode == Keys.H)

{

txtEnter.Text = "Welcome !!!";

}

}

private void Form2\_MouseClick(object sender, MouseEventArgs e)

{

if (e.Button == MouseButtons.Left)

{

MessageBox.Show("Bạn vừa click chuột trái");

}

if (e.Button == MouseButtons.Right)

{

MessageBox.Show("Bạn vừa click chuột phải");

}

if (e.Button == MouseButtons.Middle)

{

MessageBox.Show("Bạn vừa click chuột giữa");

}

}

}

}

Graphical user interface, text, application

Description automatically generated

Graphical user interface

Description automatically generated

Graphical user interface, waterfall chart

Description automatically generated with medium confidence

# **Lab 2**

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 Bai2

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void btnAdd\_Click(object sender, EventArgs e)

{

double a, b, c;

a = Convert.ToDouble(txtNum1.Text);

b = Convert.ToDouble(txtNum2.Text);

c = a + b;

txtResult.Text = c.ToString();

}

private void btnMinus\_Click(object sender, EventArgs e)

{

double a, b, c;

a = Convert.ToDouble(txtNum1.Text);

b = Convert.ToDouble(txtNum2.Text);

c = a - b;

txtResult.Text = c.ToString();

}

private void btnNhan\_Click(object sender, EventArgs e)

{

double a, b, c;

a = Convert.ToDouble(txtNum1.Text);

b = Convert.ToDouble(txtNum2.Text);

c = a \* b;

txtResult.Text = c.ToString();

}

private void btnChia\_Click(object sender, EventArgs e)

{

double a, b, c;

a = Convert.ToDouble(txtNum1.Text);

b = Convert.ToDouble(txtNum2.Text);

c = a / b;

txtResult.Text = c.ToString();

}

private void btnDel\_Click(object sender, EventArgs e)

{

txtNum1.Clear();

txtNum2.Clear();

}

private void txtNum1\_KeyPress(object sender, KeyPressEventArgs e)

{

if (!(e.KeyChar >= '0' && e.KeyChar <= '9' || e.KeyChar == (char)8))

{

e.Handled = true;

}

}

private void txtNum2\_KeyPress(object sender, KeyPressEventArgs e)

{

if (!(e.KeyChar >= '0' && e.KeyChar <= '9' || e.KeyChar == (char)8))

{

e.Handled = true;

}

}

}

}

Chart, bar chart, waterfall chart

Description automatically generated

# **Lab 3**

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 Bai3

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void btnMusic\_Click(object sender, EventArgs e)

{

string str = "";

if (cboxClassic.Checked == true)

{

str = cboxClassic.Text + "\n";

}

if (cboxEDM.Checked == true)

{

str = str + cboxEDM.Text + "\n";

}

if (cboxPop.Checked == true)

{

str = str + cboxPop.Text + "\n";

}

if (cboxRock.Checked == true)

{

str = str + cboxRock.Text + "\n";

}

if (cboxVinahouse.Checked == true)

{

str = str + cboxVinahouse.Text;

}

if (str.Length > 0)

{

MessageBox.Show("Your Music: \n" + str);

}

else

{

MessageBox.Show("Don't Have Music Your Choice");

}

}

private void btnColor\_Click(object sender, EventArgs e)

{

string str = "";

if (rdoBtnDen.Checked == true)

{

str = rdoBtnDen.Text + "\n";

}

if (rdoBtnRed.Checked == true)

{

str = str + rdoBtnRed.Text + "\n";

}

if (rdoBtnTrang.Checked == true)

{

str = str + rdoBtnTrang.Text + "\n";

}

if (rdoBtnXanhLa.Checked == true)

{

str = str + rdoBtnXanhLa.Text + "\n";

}

if (rdoXanhTroi.Checked == true)

{

str = str + rdoXanhTroi.Text;

}

if (str.Length > 0)

{

MessageBox.Show("Your Color: \n" + str);

}

else

{

MessageBox.Show("Don't Have Color Your Choice");

}

}

}

}

Chart, treemap chart

Description automatically generated

# **Lab 4**

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 Bai4

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void btnNhap\_Click(object sender, EventArgs e)

{

if (!String.IsNullOrEmpty(txtName.Text))

{

listBox1.Items.Add(txtName.Text);

txtSum.Text = listBox1.Items.Count.ToString();

txtName.Clear();

txtName.Focus();

}

else

MessageBox.Show("Vui lòng điền đầy đủ thông tin !!!");

}

private void btnXoaChon\_Click(object sender, EventArgs e)

{

int a = Convert.ToInt32(txtSum.Text);

if (listBox1.SelectedItems.Count != 0)

{

listBox1.Items.Remove(listBox1.SelectedItems[0]);

}

txtSum.Text = (a - 1).ToString();

}

private void btnXoaDau\_Click(object sender, EventArgs e)

{

int a = Convert.ToInt32(txtSum.Text);

listBox1.Items.RemoveAt(0);

txtSum.Text = (a - 1).ToString();

}

private void btnXoaCuoi\_Click(object sender, EventArgs e)

{

int a = Convert.ToInt32(txtSum.Text);

listBox1.Items.RemoveAt(listBox1.Items.Count - 1);

txtSum.Text = (a - 1).ToString();

}

private void btnXoaAll\_Click(object sender, EventArgs e)

{

listBox1.Items.Clear();

txtSum.Text = "0";

}

private void btnChangeColor\_Click(object sender, EventArgs e)

{

if (cbBoxColor.Text == "Yellow")

{

lbChangeColor.BackColor = Color.Red;

lbChangeColor.ForeColor = Color.Yellow;

}

if (cbBoxColor.Text == "Red")

{

lbChangeColor.BackColor = Color.Yellow;

lbChangeColor.ForeColor = Color.Red;

}

if (cbBoxColor.Text == "Blue")

{

lbChangeColor.BackColor = Color.Yellow;

lbChangeColor.ForeColor = Color.Blue;

}

if (cbBoxColor.Text == "Black")

{

lbChangeColor.BackColor = Color.White;

lbChangeColor.ForeColor = Color.Black;

}

}

}

}

Graphical user interface

Description automatically generated

# **Lab 5**

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;

using static System.Windows.Forms.VisualStyles.VisualStyleElement;

namespace Bai5

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void btnDangNhap\_Click(object sender, EventArgs e)

{

if (!string.IsNullOrWhiteSpace(txtName.Text) || !string.IsNullOrWhiteSpace(txtPassword.Text))

{

MessageBox.Show("Đăng nhập thành công !!!");

}

else

{

MessageBox.Show("Vui lòng điền đầy đủ thông tin !!!");

}

}

private void txtPassword\_KeyPress(object sender, KeyPressEventArgs e)

{

if (!(e.KeyChar >= '0' && e.KeyChar <= '9' || e.KeyChar == (char)8))

e.Handled = true;

}

private void cBoxShowPassword\_CheckedChanged(object sender, EventArgs e)

{

if (cBoxShowPassword.Checked == true)

{

txtPassword.PasswordChar = (char)0;

}

else

{

txtPassword.PasswordChar = '\*';

}

}

private void Form1\_Load(object sender, EventArgs e)

{

toolTip1.SetToolTip(txtName, "Chỉ được nhập ký tự a-z và 0-9");

toolTip1.SetToolTip(txtPassword, "Chỉ được nhập ký tự từ 0-9");

helpProvider1.HelpNamespace = "mailto:pdmnhat.19it3@vku.udn.vn";

}

private void toolTip1\_Popup(object sender, PopupEventArgs e)

{

}

}

}

Chart

Description automatically generated

# **Lab 6**

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 Bai6

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void timer1\_Tick(object sender, EventArgs e)

{

DateTime dt = DateTime.Now.Add(new TimeSpan());

lbGio.Text = String.Format("{0:hh:mm:ss tt}", dt);

lbNgayThang.Text = String.Format("{0:dd/MM/yyyy}", dt);

}

private void timer2\_Tick(object sender, EventArgs e)

{

Form2 frm = new Form2();

progressBar1.Increment(1);

label1.Text = "Connecting to from " + progressBar1.Value.ToString() + "%";

if (progressBar1.Value == progressBar1.Maximum)

{

timer2.Enabled = false;

frm.ShowDialog();

}

}

private void btnShow\_Click(object sender, EventArgs e)

{

if (progressBar1.Enabled == true)

{

progressBar1.Enabled = false;

timer2.Start();

timer1.Start();

}

else

{

progressBar1.Enabled = true;

timer2.Stop();

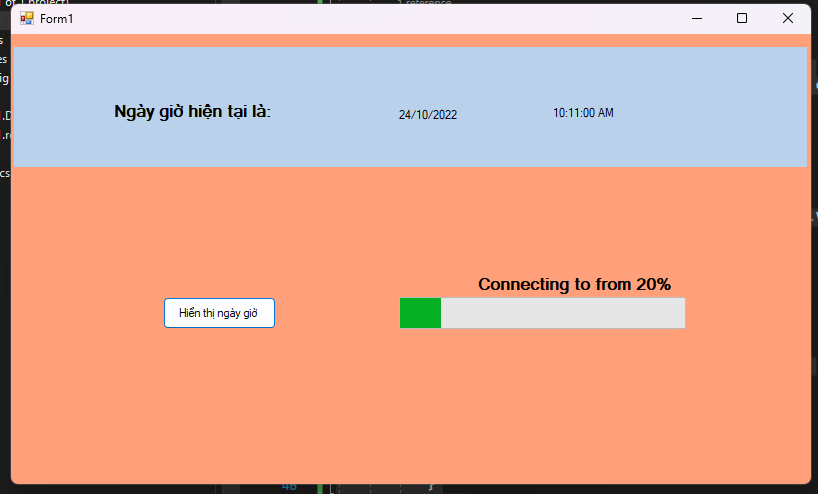
timer1.Stop();

}

}

}

}



Graphical user interface, application, PowerPoint

Description automatically generated

# **Lab 7**

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 Bai7

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

listView1.View = View.Details;

}

private void btnAdd\_Click(object sender, EventArgs e)

{

if ((string.IsNullOrEmpty(textBox1.Text)) || (string.IsNullOrEmpty(textBox2.Text)))

{

MessageBox.Show("Vui lòng điền đủ thông tin");

}

else

{

ListViewItem item = new ListViewItem();

item.Text = textBox1.Text;

listView1.Items.Add(item);

ListViewItem.ListViewSubItem subitem = new ListViewItem.ListViewSubItem(item, (textBox2.Text));

item.SubItems.Add(subitem);

textBox1.Clear();

textBox2.Clear();

textBox1.Focus();

}

}

private void listView1\_SelectedIndexChanged(object sender, EventArgs e)

{

}

private void btnDel\_Click(object sender, EventArgs e)

{

if (listView1.SelectedItems.Count > 0)

{

DialogResult dl = MessageBox.Show("Bạn muốn xóa", "canh bao", MessageBoxButtons.OKCancel, MessageBoxIcon.Warning);

if (dl == DialogResult.OK)

listView1.Items.Remove(listView1.SelectedItems[0]);

}

else MessageBox.Show("Xóa lỗi");

}

private void btnDelAll\_Click(object sender, EventArgs e)

{

listView1.Items.Clear();

}

private void btnOut\_Click(object sender, EventArgs e)

{

Application.Exit();

}

}

}



# **Lab 8**

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 Bai8

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void btnNodeGoc\_Click(object sender, EventArgs e)

{

bool t = false;

if (!string.IsNullOrEmpty(txtNode.Text))

{

TreeNode Node = new TreeNode();

Node.Text = txtNode.Text;

foreach (TreeNode nodex in treeView1.Nodes)

{

if (string.Equals(Node.Text, nodex.Text))

{

MessageBox.Show("Node đã tồn tại");

t = true;

}

}

if (t == false) treeView1.Nodes.Add(Node);

txtNode.Clear();

txtNode.Focus();

}

else

MessageBox.Show("Node không được để trống");

}

private void btnNodeCon\_Click(object sender, EventArgs e)

{

if (!string.IsNullOrEmpty(txtNode.Text))

{

if (treeView1.SelectedNode != null)

{

TreeNode Subnode = new TreeNode();

Subnode.Text = txtNode.Text;

treeView1.SelectedNode.Nodes.Add(Subnode);

txtNode.Clear();

txtNode.Focus();

}

else

MessageBox.Show("Bạn chưa chọn vị trí tạo Node con");

}

else

MessageBox.Show("Node không được để trống");

}

private void btnDelAllNode\_Click(object sender, EventArgs e)

{

treeView1.Nodes.Clear();

}

private void btnDelNode\_Click(object sender, EventArgs e)

{

if (treeView1.SelectedNode != null)

treeView1.SelectedNode.Remove();

}

private void btnCountNode\_Click(object sender, EventArgs e)

{

int n = treeView1.GetNodeCount(true);

MessageBox.Show("Tổng số Node của TreeView : " + n);

}

private void btnZoomIn\_Click(object sender, EventArgs e)

{

treeView1.ExpandAll();

}

private void btnZoomOut\_Click(object sender, EventArgs e)

{

treeView1.CollapseAll();

}

}

}

Graphical user interface, chart

Description automatically generated

# **Lab 9**

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;

using static System.Windows.Forms.VisualStyles.VisualStyleElement.ListView;

namespace Bai9

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void btnBook\_Click(object sender, EventArgs e)

{

if (string.IsNullOrEmpty(txtName.Text) || string.IsNullOrEmpty(txtEmail.Text) || string.IsNullOrEmpty(txtSdt.Text))

{

MessageBox.Show("Bạn chưa nhập đầy đủ thông tin");

}

else if (!string.IsNullOrEmpty(txtName.Text) || !string.IsNullOrEmpty(txtSdt.Text) || !string.IsNullOrEmpty(txtEmail.Text) == true)

{

label1.Text = "From: " + dateTimePicker1.Value.ToShortDateString() + "To: " + dateTimePicker2.Value.ToShortDateString();

label2.Text = "Name: " + txtName.Text;

label3.Text = "Sđt: " + txtSdt.Text;

label4.Text = "Email: " + txtEmail.Text;

label5.Text = "Phòng ở: " + cbBoxRoom.Text;

}

}

private void txtName\_KeyPress(object sender, KeyPressEventArgs e)

{

if (!((e.KeyChar >= 'a' && e.KeyChar <= 'z') || (e.KeyChar == ' ') || (e.KeyChar >= 'A' && e.KeyChar <= 'Z') || e.KeyChar == (char)8))

e.Handled = true;

}

private void txtSdt\_KeyPress(object sender, KeyPressEventArgs e)

{

if (!(e.KeyChar >= '0' && e.KeyChar <= '9' || e.KeyChar == (char)8))

e.Handled = true;

}

private void Form1\_Load(object sender, EventArgs e)

{

dateTimePicker1.MinDate = DateTime.Now;

int dayofmonth = DateTime.DaysInMonth(DateTime.Now.Year, DateTime.Now.Month);

dateTimePicker1.MaxDate = new DateTime(DateTime.Now.Year, DateTime.Now.Month, dayofmonth);

dateTimePicker2.MinDate = DateTime.Now;

}

}

}

Graphical user interface

Description automatically generated

# **Lab 10**

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 Bai10

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void timer1\_Tick(object sender, EventArgs e)

{

DateTime dt = DateTime.Now.Add(new TimeSpan());

lbTime.Text = String.Format("{0:hh:mm:ss tt}", dt);

}

private void timer2\_Tick(object sender, EventArgs e)

{

DateTime dt = DateTime.Now.Add(new TimeSpan());

lbDate.Text = String.Format("{0:dd/MM/yyyy}", dt);

}

private void toolStripComboBox1\_Click(object sender, EventArgs e)

{

if (toolStripComboBox1.SelectedItem == "Hiển thị thời gian")

{

timer1.Start();

}

else if (toolStripComboBox1.SelectedItem == "Hiển thị ngày tháng")

{

timer2.Start();

}

}

private void toolStripMenuItem2\_Click(object sender, EventArgs e)

{

DialogResult dt = MessageBox.Show("Bạn muốn đóng chương trình", "Thông báo", MessageBoxButtons.YesNo, MessageBoxIcon.Question);

if (dt == DialogResult.Yes)

{

Application.Exit();

}

}

}

}

Graphical user interface, application

Description automatically generated

# **Lab 11**

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 Bai11

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void Form1\_Load(object sender, EventArgs e)

{

}

private void displayTimeToolStripMenuItem\_Click(object sender, EventArgs e)

{

DateTime dt = DateTime.Now.Add(new TimeSpan());

lbTime.Text = String.Format("{0:hh:mm:ss tt}", dt);

}

private void displayDateToolStripMenuItem\_Click(object sender, EventArgs e)

{

DateTime dt = DateTime.Now.Add(new TimeSpan());

lbDate.Text = String.Format("{0:dd/MM/yyyy}", dt);

}

private void menuExitToolStripMenuItem\_Click(object sender, EventArgs e)

{

DialogResult dt = MessageBox.Show("Bạn muốn đóng chương trình", "Thông báo", MessageBoxButtons.YesNo, MessageBoxIcon.Question);

if (dt == DialogResult.Yes)

{

Application.Exit();

}

}

private void Form1\_MouseClick(object sender, MouseEventArgs e)

{

if (e.Button == MouseButtons.Right)

{

contextMenuStrip1.Show(PointToScreen(e.Location));

}

else

{

}

}

}

}

Graphical user interface

Description automatically generated with medium confidence

# **Lab 12**

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;

using static System.Windows.Forms.VisualStyles.VisualStyleElement;

namespace Bai12

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void coppyToolStripMenuItem\_Click(object sender, EventArgs e)

{

textBox1.Copy();

}

private void cutCtrlXToolStripMenuItem\_Click(object sender, EventArgs e)

{

textBox1.Cut();

}

private void pasteCtrlVToolStripMenuItem\_Click(object sender, EventArgs e)

{

textBox1.Paste();

}

private void deleteToolStripMenuItem\_Click(object sender, EventArgs e)

{

int i;

i = textBox1.SelectionStart;

textBox1.Text = textBox1.Text.Remove(i, textBox1.SelectionLength);

textBox1.SelectionStart = i;

}

private void selectAllCtrlAToolStripMenuItem\_Click(object sender, EventArgs e)

{

textBox1.SelectAll();

}

private void undoCtrlZToolStripMenuItem\_Click(object sender, EventArgs e)

{

textBox1.Undo();

}

private void fontToolStripMenuItem\_Click(object sender, EventArgs e)

{

FontDialog f = new FontDialog();

if (f.ShowDialog() == DialogResult.OK)

{

textBox1.Font = f.Font;

}

}

private void colorToolStripMenuItem\_Click(object sender, EventArgs e)

{

ColorDialog c = new ColorDialog();

if (c.ShowDialog() == DialogResult.OK)

{

textBox1.ForeColor = c.Color;

}

}

private void wordWapToolStripMenuItem\_Click(object sender, EventArgs e)

{

if (textBox1.WordWrap == true)

{

wordWapToolStripMenuItem.Checked = false;

textBox1.WordWrap = false;

}

else

{

wordWapToolStripMenuItem.Checked = true;

textBox1.WordWrap = true;

}

}

private void exitToolStripMenuItem\_Click(object sender, EventArgs e)

{

Application.Exit();

}

}

}

Graphical user interface, application

Description automatically generated

# **Lab 13**

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 Bai13

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

private void btnAdd\_Click(object sender, EventArgs e)

{

if (string.IsNullOrEmpty(txtID.Text) || string.IsNullOrEmpty(txtName.Text) || string.IsNullOrEmpty(txtPassword.Text))

{

MessageBox.Show("You have not entered full information !!", "Notify", MessageBoxButtons.OK, MessageBoxIcon.Warning);

}

else

{

// tạo mới một ListViewItem

ListViewItem lstvItem = new ListViewItem();

lstvItem.Text = txtName.Text;

ListViewItem.ListViewSubItem lstvsub = new ListViewItem.ListViewSubItem(lstvItem, txtPassword.Text);

ListViewItem.ListViewSubItem lstvsub1 = new ListViewItem.ListViewSubItem(lstvItem, txtID.Text);

// thêm các thông tin vào các cột tương ứng trong ListView

lstvItem.SubItems.Add(lstvsub);

lstvItem.SubItems.Add(lstvsub1);

listView1.Items.Add(lstvItem);

MessageBox.Show("You have successfuly added your account", "Notify", MessageBoxButtons.OK, MessageBoxIcon.Information);

// sau khi thêm thông tin ta sẽ xóa các thông tin đã nhập ở các ô textbox để có thể nhập và thêm mới tài khoản khác.

txtID.Clear();

txtName.Clear();

txtPassword.Clear();

}

}

private void btnDel\_Click(object sender, EventArgs e)

{

if (listView1.SelectedIndices.Count <= 0)

{

MessageBox.Show("You have not selected the item you want to delete", "Notify", MessageBoxButtons.OK, MessageBoxIcon.Warning);

}

if (listView1.SelectedIndices.Count > 0)

{

DialogResult dl = MessageBox.Show("Bạn muốn xóa", "Notice", MessageBoxButtons.OKCancel, MessageBoxIcon.Warning);

if (dl == DialogResult.OK)

listView1.Items.Remove(listView1.SelectedItems[0]);

}

}

private void btnExit\_Click(object sender, EventArgs e)

{

Application.Exit();

}

}

}

Graphical user interface, chart, table

Description automatically generated