# SOURCE CODE CHỨC NĂNG THỨ 2: CHUYỂN ĐỔI HỆ CƠ SỐ

**Group**: Nhịp 4

**Members:**

1. Đào Tấn Công
2. Đỗ Văn Lộc
3. Nguyễn Chánh Tuấn
4. Ngô Văn Luýt

**Code:**

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Text;

using System.Windows.Forms;

namespace Calculator

{

public partial class Form1 : Form

{

double value = 0;

string operation = "";

bool operation\_pressed = false;

public Form1()

{

InitializeComponent();

}

private void button16\_Click(object sender, EventArgs e)

{

this.Close();

}

private void Form1\_FormClosing(object sender, FormClosingEventArgs e)

{

if (MessageBox.Show("Ban chắc chắn muốn thoát ứng dụng vi diệu này ?", "Thông báo !", MessageBoxButtons.YesNo, MessageBoxIcon.Question) == DialogResult.Yes)

{

e.Cancel = false;

}

else

{

e.Cancel = true;

}

}

**//Chức năng 1: Cộng, trừ, nhân, chia**

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

{

if ((textBox1.Text == "0") || (operation\_pressed))

textBox1.Clear();

operation\_pressed = false;

Button b = (Button)sender;

if (b.Text == ".")

{

if (!textBox1.Text.Contains("."))

{

textBox1.Text = textBox1.Text + b.Text;

}

}

else

textBox1.Text = textBox1.Text + b.Text;

}

private void button19\_Click(object sender, EventArgs e)

{

textBox1.Text = "0";

}

private void operator\_click(object sender, EventArgs e)

{

Button b = (Button)sender;

if (value != 0)

{

bang.PerformClick();

operation\_pressed = true;

operation = b.Text;

label2.Text = value + " " + operation;

}

else

{

operation = b.Text;

value = Double.Parse(textBox1.Text);

operation\_pressed = true;

label2.Text = value + " " + operation;

}

}

private void button17\_Click(object sender, EventArgs e)

{

label2.Text = "";

switch (operation)

{

case "+":

textBox1.Text = (value + Double.Parse(textBox1.Text)).ToString();

break;

case "-":

textBox1.Text = (value - Double.Parse(textBox1.Text)).ToString();

break;

case "\*":

textBox1.Text = (value \* Double.Parse(textBox1.Text)).ToString();

break;

case "/":

textBox1.Text = (value / Double.Parse(textBox1.Text)).ToString();

break;

default :

break;

}

value =Double.Parse(textBox1.Text);

operation = "";

}

private void button18\_Click(object sender, EventArgs e)

{

textBox1.Text = "0";

value = 0;

label2.Text = "";

}

private void Form1\_KeyPress(object sender, KeyPressEventArgs e)

{

switch (e.KeyChar.ToString())

{

case "0":

khong.PerformClick();

break;

case "1":

mot.PerformClick();

break;

case "2":

hai.PerformClick();

break;

case "3":

ba.PerformClick();

break;

case "4":

bon.PerformClick();

break;

case "5":

nam.PerformClick();

break;

case "6":

sau.PerformClick();

break;

case "7":

bay.PerformClick();

break;

case "8":

tam.PerformClick();

break;

case "9":

chin.PerformClick();

break;

case "+":

cong.PerformClick();

break;

case "-":

tru.PerformClick();

break;

case "\*":

nhan.PerformClick();

break;

case "/":

chia.PerformClick();

break;

case "=":

bang.PerformClick();

break;

default:

break;

}

}

**//Chức năng 2: Chuyển đổi hệ cơ số**

private void button23\_Click(object sender, EventArgs e)

{

int so = int.Parse(textBox1.Text);

string Base = Convert.ToString(so, 10);

textBox1.Text = Base;

}

private void button22\_Click(object sender, EventArgs e)

{

int so = int.Parse(textBox1.Text);

string Base = Convert.ToString(so, 16);

textBox1.Text = Base;

}

private void button21\_Click(object sender, EventArgs e)

{

int so = int.Parse(textBox1.Text);

string Base = Convert.ToString(so, 2);

textBox1.Text = Base;

}

private void button20\_Click(object sender, EventArgs e)

{

int so = int.Parse(textBox1.Text);

string Base = Convert.ToString(so, 8);

textBox1.Text = Base;

}

}

}