

**Lab Tasks #1**

**Submitted By:**

Anis Majid

FA21-BCS-024

**Course Instructor:**

Mr. Syed Bilal Haider

**Course:**

Compiler Construction

**Date:**

13th September, 2024

**DEPARTMENT OF COMPUTER SCIENCE**

**COMSATS UNIVERSITY ISLAMABAD, ATTOCK CAMPUS**

**Lab 1**

using System.Windows.Forms.VisualStyles;

namespace Calculator\_009\_

{

public partial class Form1 : Form

{

String num1;

String num2;

String op;

bool n=false;

public Form1()

{

InitializeComponent();

}

private void button3\_Click(object sender, EventArgs e)

{

if (n == true)

{

textBox1.Clear();

textBox1.Text = textBox1.Text + "9";

}

else

{

textBox1.Text = textBox1.Text + "9";

}

}

private void button11\_Click(object sender, EventArgs e)

{

textBox1.Text = textBox1.Text + "1";

}

private void textBox1\_TextChanged(object sender, EventArgs e)

{

}

private void button4\_Click(object sender, EventArgs e)

{

textBox1.Text = textBox1.Text + "8";

}

private void button5\_Click(object sender, EventArgs e)

{

textBox1.Text = textBox1.Text + "7";

}

private void button6\_Click(object sender, EventArgs e)

{

textBox1.Text = textBox1.Text + "6";

}

private void button7\_Click(object sender, EventArgs e)

{

textBox1.Text = textBox1.Text + "5";

}

private void button8\_Click(object sender, EventArgs e)

{

textBox1.Text = textBox1.Text + "4";

}

private void button9\_Click(object sender, EventArgs e)

{

textBox1.Text = textBox1.Text + "3";

}

private void button10\_Click(object sender, EventArgs e)

{

textBox1.Text = textBox1.Text + "2";

}

private void button14\_Click(object sender, EventArgs e)

{

textBox1.Text = textBox1.Text + "0";

}

private void button15\_Click(object sender, EventArgs e)

{

num1 = textBox1.Text;

textBox1.Clear();

op = "add";

}

private void button2\_Click(object sender, EventArgs e)

{

n = true;

num2 = textBox1.Text;

double b = double.Parse(num2);

double d = (b \* (Math.PI)) / 180;

if (op == "sin")

{

double f = Math.Sin(b);

textBox1.Text = f.ToString();

}

else if(op == "cos") {

double f = Math.Cos(b);

textBox1.Text = f.ToString();

}

else

{

double a = double.Parse(num1);

if (op == "add")

{

double sum = a + b;

textBox1.Text = sum.ToString();

}

else if (op == "sub")

{

double sum = a - b;

textBox1.Text = sum.ToString();

}

else if (op == "mul")

{

double sum = a \* b;

textBox1.Text = sum.ToString();

}

else if (op == "div")

{

double sum = a / b;

textBox1.Text = sum.ToString();

}

else

{

textBox1.Text = "Press Valid Keys";

}

}

}

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

{

textBox1.Clear();

num2 = "";

num1 = "";

op = "";

}

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

{

num1 = textBox1.Text;

textBox1.Clear();

op = "sub";

}

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

{

num1 = textBox1.Text;

textBox1.Clear();

op = "mul";

}

private void button12\_Click(object sender, EventArgs e)

{

}

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

{

num1 = textBox1.Text;

textBox1.Clear();

op = "div";

}

private void button13\_Click(object sender, EventArgs e)

{

textBox1.Clear();

op = "sin";

}

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

{

textBox1.Clear();

op = "cos";

}

}

}

**Output:**

