**Приложение 1.**

Практическая работа 2

Задание 2

2.1

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

{

double x, y, z, b;

x = Convert.ToDouble(textBox1.Text);

y = Convert.ToDouble(textBox2.Text);

z = Convert.ToDouble(textBox3.Text);

b = Math.Pow(y, Math.Pow(3,Math.Sqrt(Math.Abs(x)))) + (Math.Pow(3, (Math.Cos(y))) \* (Math.Abs(x - y)) \* ((1 + Math.Pow(2, (Math.Sin(z))) / Math.Sqrt(x + y)) / Math.Exp(Math.Abs(x - y)) + x / 2));

listBox1.Items.Add("При x=" + x);

listBox1.Items.Add(" y=" + y);

listBox1.Items.Add(" z=" + z);

listBox1.Items.Add(" b=" + b);

}2.2

private void button2\_Click\_1(object sender, EventArgs e)

{

double x, y, z, f;

x = Convert.ToDouble(textBox1.Text);

y = Convert.ToDouble(textBox2.Text);

z = Convert.ToDouble(textBox3.Text);

f = (Math.Max(y, z) / Math.Min(x, y) + 5);

listBox1.Items.Add("При x=" + x);

listBox1.Items.Add(" y=" + y);

listBox1.Items.Add(" z=" + z);

listBox1.Items.Add(" f=" + f);

2.3

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

{

Int32 n; String k;

n = Convert.ToInt32(textBox1.Text);

listBox1.Items.Clear();

switch (n)

{

case 0: k = "ночь"; listBox1.Items.Add(k); break;

case 1: k = "ночь"; listBox1.Items.Add(k); break;

case 2: k = "ночь"; listBox1.Items.Add(k); break;

case 3: k = "ночь"; listBox1.Items.Add(k); break;

case 4: k = "ночь"; listBox1.Items.Add(k); break;

case 5: k = "утро"; listBox1.Items.Add(k); break;

case 6: k = "утро"; listBox1.Items.Add(k); break;

case 7: k = "утро"; listBox1.Items.Add(k); break;

case 8: k = "утро"; listBox1.Items.Add(k); break;

case 9: k = "утро"; listBox1.Items.Add(k); break;

case 10: k = "утро"; listBox1.Items.Add(k); break;

case 11: k = "утро"; listBox1.Items.Add(k); break;

case 12: k = "день"; listBox1.Items.Add(k); break;

case 13: k = "день"; listBox1.Items.Add(k); break;

case 14: k = "день"; listBox1.Items.Add(k); break;

case 15: k = "день"; listBox1.Items.Add(k); break;

case 16: k = "день"; listBox1.Items.Add(k); break;

case 17: k = "день"; listBox1.Items.Add(k); break;

case 18: k = "вечер"; listBox1.Items.Add(k); break;

case 19: k = "вечер"; listBox1.Items.Add(k); break;

case 20: k = "вечер"; listBox1.Items.Add(k); break;

case 21: k = "вечер"; listBox1.Items.Add(k); break;

case 22: k = "вечер"; listBox1.Items.Add(k); break;

case 23: k = "вечер"; listBox1.Items.Add(k); break;

2.4

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

{

double a, b, x,n,y;

a = Convert.ToDouble(textBox2.Text);

b = Convert.ToDouble(textBox4.Text);

n = Convert.ToDouble(textBox1.Text);

x = -4;

while (x >= n)

{

y = x + Math.Sqrt(Math.Abs(x \* x \* x + a - Math.Pow(b, x)));

listBox1.Items.Add("x=" + x + " y=" + y);

x += -0.2;

}

}

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

{

Application.Exit();

}