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using System;
using System.Windows.Forms;
using System.Drawing;
public class win : Form
{
    Button[] b = new Button[10];
    Button bDot, bPlus, bSub, bMul, bDiv, bEqu, bClr;
    Panel panCalc;
    TextBox txtCalc;
    Double dblAcc;
    Double dblSec;
    bool blnClear, blnFrstOpen;
    String strOper;
    public win()
    {
        try
        {
            this.Text = "Calculator";
            panCalc = new Panel();
            txtCalc = new TextBox();

            txtCalc.Location = new Point(10, 10);
            txtCalc.Size = new Size(150, 10);
            txtCalc.ReadOnly = true;
            txtCalc.RightToLeft = RightToLeft.Yes;
            panCalc.Size = new Size(200, 200);
            panCalc.BackColor = Color.Aqua;
            panCalc.Controls.Add(txtCalc);

            this.addButtons(panCalc);
            this.Size = new Size(200, 225);
            this.Controls.Add(panCalc);
            dblAcc = 0;
            dblSec = 0;
            blnFrstOpen = true;
            blnClear = false;
            strOper = new String('-', 1);
        }
        catch (Exception e)
        {
            Console.WriteLine("error ..... " + e.StackTrace);
        }
    }

    private void addButtons(Panel p)
    {
        for (int i = 0; i <= 9; i++)
        {
            b[i] = new Button();
            b[i].Text = Convert.ToString(i);
            b[i].Size = new Size(25, 25);
            b[i].BackColor = Color.White;
            b[i].Click += new EventHandler(btn_clk);
            p.Controls.Add(b[i]);
        }
        b[0].Location = new Point(10, 160);
        b[1].Location = new Point(10, 120);
        b[4].Location = new Point(10, 80);
    }
}

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b[7].Location = new Point(10, 40);

b[2].Location = new Point(50, 120);
b[5].Location = new Point(50, 80);
b[8].Location = new Point(50, 40);

b[3].Location = new Point(90, 120);
b[6].Location = new Point(90, 80);
b[9].Location = new Point(90, 40);

bDot = new Button();
bDot.Size = new Size(25, 25);
bDot.Location = new Point(50, 160);
bDot.BackColor = Color.White;
bDot.Text = ".";
bDot.Click += new EventHandler(btn_clk);

bPlus = new Button();
bPlus.Size = new Size(25, 25);
bPlus.Location = new Point(130, 160);
bPlus.BackColor = Color.White;
bPlus.Text = "+";
bPlus.Click += new EventHandler(btn_Oper);

bSub = new Button();
bSub.Size = new Size(25, 25);
bSub.Location = new Point(130, 120);
bSub.BackColor = Color.White;
bSub.Text = "-";
bSub.Click += new EventHandler(btn_Oper);

bMul = new Button();
bMul.Size = new Size(25, 25);
bMul.Location = new Point(130, 80);
bMul.BackColor = Color.White;
bMul.Text = "*";
bMul.Click += new EventHandler(btn_Oper);

bDiv = new Button();
bDiv.Size = new Size(25, 25);
bDiv.Location = new Point(130, 40);
bDiv.BackColor = Color.White;
bDiv.Text = "/";
bDiv.Click += new EventHandler(btn_Oper);

bEqu = new Button();
bEqu.Size = new Size(25, 25);
bEqu.Location = new Point(90, 160);
bEqu.BackColor = Color.White;
bEqu.Text = "=";
bEqu.Click += new EventHandler(btn_equ);

bClr = new Button();
bClr.Size = new Size(20, 45);
bClr.Location = new Point(170, 40);
bClr.BackColor = Color.Orange;
bClr.Text = "AC";
bClr.Click += new EventHandler(btn_clr);
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        p.Controls.Add(bDot);
        p.Controls.Add(bPlus);
        p.Controls.Add(bSub);
        p.Controls.Add(bMul);
        p.Controls.Add(bDiv);
        p.Controls.Add(bEqu);
        p.Controls.Add(bClr);
    }

    private void btn_clk(object obj, EventArgs ea)
    {
        if (blnClear)
            txtCalc.Text = "";
        Button b3 = (Button)obj;
        txtCalc.Text += b3.Text;
        if (txtCalc.Text == ".")
            txtCalc.Text = "0.";
        dblSec = Convert.ToDouble(txtCalc.Text);
        blnClear = false;
    }

    private void btn_oper(object obj, EventArgs ea)
    {
        Button tmp = (Button)obj;
        strOper = tmp.Text;
        if (blnFrstOpen)
            dblAcc = dblSec;
        else
            calc();
        blnFrstOpen = false;
        blnClear = true;
    }

    private void btn_clr(object obj, EventArgs ea)
    {
        clear();
    }

    private void btn_equ(object obj, EventArgs ea)
    {
        calc();
    }

    private void calc()
    {
        switch (strOper)
        {
            case "+":
                dblAcc += dblSec;
                break;
            case "-":
                dblAcc -= dblSec;
                break;
            case "*":
                dblAcc *= dblSec;

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        break;
    case "/":
        dblAcc /= dblSec;
        break;
    }

    strOper = "=";
    blnFrstOpen = true;
    txtCalc.Text = Convert.ToString(dblAcc);
    dblSec = dblAcc;
}

private void clear()
{
    dblAcc = 0;
    dblSec = 0;
    blnFrstOpen = true;
    txtCalc.Text = "";
    txtCalc.Focus();
}
}

class MApplication
{
    public static void main()
    {
        Application.Run(new win());
    }
}
}
```