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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 MyDataGridView
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();

            private void plotToolStripMenuItem_Click(object sender, EventArgs e)
            {
                Graphics gg = CreateGraphics();
                SolidBrush sb = new SolidBrush(Color.Green);
                for (int i = 0; i < 361; i++)
                {
                    double y = Math.Sin(i * 3.1417 / 180);
                    gg.FillEllipse(sb, 200+i, 300-(float)y*50, 5, 5);
                }
            }

            private void dGViewToolStripMenuItem_Click(object sender, EventArgs e)
            {
                DataTable dt=new DataTable();
                dt.Columns.Add("theta");
                dt.Columns.Add("sin(theta)");
                DataRow dr;
                for (int i = 0; i < 361; i++)
                {
                    dr = dt.NewRow();
                    dr[0] = i;
                    dr[1] = Math.Sin(i * Math.PI / 180);
                    dt.Rows.Add(dr);
                }
                dataGridView1.DataSource = dt;
            }

            private void dGViewToolStripMenuItem3_Click(object sender, EventArgs e)
            {
                int[,] a = new int[3, 3];
                DataTable dt = new DataTable();
                for (int i = 0; i < a.GetLength(1); i++)
                {
                    dt.Columns.Add(i.ToString());
                }
                DataRow dr;
                for (int i = 0; i < a.GetLength(0); i++)
                {
                    dr = dt.NewRow();

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        for (int j = 0; j < a.GetLength(1); j++)
        {
            dr[j] = a[i, j];
        }
        dt.Rows.Add(dr);
    }
    dataGridView2.DataSource = dt;
}
}
}

```

