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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 MyRandomNumbers
    public partial class Form1 : Form
        public Form1()
            InitializeComponent();
        private void integersToolStripMenuItem_Click(object sender, EventArgs e)
            int[,] x = new int[5, 5];
            Random rnd = new Random();
            for (int i = 0; i < x.GetLength(0); i++)</pre>
                for (int j = 0; j < x.GetLength(1); j++)</pre>
                {
                    //x[i, j] = rnd.Next(); // any non-negative integer
                    //x[i, j] = rnd.Next(100); //(0-99) non negative integer
                    x[i, j] = rnd.Next(40,100); //(40-99) non negative integer
            DataTable dt = new DataTable();
            for (int i = 0; i < x.GetLength(1); i++)</pre>
                dt.Columns.Add();
            }
            DataRow dr;
            for (int i = 0; i < x.GetLength(0); i++)</pre>
                dr = dt.NewRow();
                for (int j = 0; j < x.GetLength(1); j++)
                    dr[j] = x[i, j];
                dt.Rows.Add(dr);
            dataGridView1.DataSource = dt;
        private void doubleToolStripMenuItem_Click(object sender, EventArgs e)
           double[,] x = new double[5, 5];
            Random rnd = new Random(2);
                                                  //passing a seed value
            for (int i = 0; i < x.GetLength(0); i++)</pre>
                for (int j = 0; j < x.GetLength(1); j++)
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{
                x[i, j] = rnd.NextDouble();
        }
        DataTable dt = new DataTable();
        for (int i = 0; i < x.GetLength(1); i++)
            dt.Columns.Add(i.ToString());
        DataRow dr;
        for (int i = 0; i < x.GetLength(0); i++)</pre>
            dr = dt.NewRow();
            for (int j = 0; j < x.GetLength(1); j++)
                dr[j] = x[i, j];
            dt.Rows.Add(dr);
        dataGridView1.DataSource = dt;
    //Display double values between 5 to 20
    private void doubleRangeToolStripMenuItem_Click(object sender, EventArgs e)
        double[,] x = new double[5, 5];
        Random rnd = new Random();
        for (int i = 0; i < x.GetLength(0); i++)</pre>
        {
            for (int j = 0; j < x.GetLength(1); j++)
            {
                x[i, j] = rnd.NextDouble() + rnd.Next(5, 20);
            }
        DataTable dt = new DataTable();
        for (int i = 0; i < x.GetLength(1); i++)</pre>
            dt.Columns.Add(i.ToString());
        DataRow dr;
        for (int i = 0; i < x.GetLength(0); i++)
        {
            dr = dt.NewRow();
            for (int j = 0; j < x.GetLength(1); j++)
                dr[j] = x[i, j];
            dt.Rows.Add(dr);
        dataGridView1.DataSource = dt;
    }
}
```

}

