

الاسم / ايمن شايف عبدالله خالد الادريسي

مدرس المقرر / نجم الدين الدغار

البرنامج الأول

The screenshot shows a standard Windows application window. The title bar at the top reads 'المهندس ايمن الادريسي' (Engineer Ayman Al-Adriisi). The window has a light gray background. At the top, there is a white text input field. To the right of this field is a button with the text 'ادخل النص' (Enter text). Below the input field is a button with the text 'اضافه' (Add). In the center of the window is a large, empty white rectangular area. At the bottom left of the window is a button with the text 'اغلق' (Close). The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

```
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 lesson3
```

```
{
```

```
    public partial class Form1 : Form
```

```
    {
```

```
        public Form1()
```

```
        {
```

```
            InitializeComponent();
```

```
        }
```

```
        private void button1_Click(object sender, EventArgs e)
```

```
        {
```

```
            if (!IsNumber(textBox1.Text))
```

```
            {
```

```
                textBox2.Text += textBox1.Text + "\r\n";
```

```
                textBox1.Focus();
```

```
                textBox1.Clear();
```

```
            }
```

```
        else
```

```

{
    MessageBox.Show("error in textbox1");
    textBox1.Focus();
    textBox1.Clear();
}
}

```

```

private void Form1_Load(object sender, EventArgs e)
{
    MessageBox.Show("ترحيب", "اضغط على الواجهه للحصول على الوان مختلفة", MessageBoxButtons.OKCancel);
    this.CenterToParent();
    textBox1.Text = "ameen alslahy" + "\r\n";
    textBox1.TextChanged += tex_enter_Texetchang;
    button2.MouseEnter += putton2_mousEnter;
    button1.MouseLeave += putton1_leave;
    this.MouseClick += fr_mous_clik;
}

```

```

private void fr_mous_clik(object sender, MouseEventArgs m)
{
    Random r = new Random();
    this.BackColor = Color.FromArgb (r.Next(0, 255),r.Next(0, 255),
r.Next(0, 255));
}

```

```
}
```

```
private void tex_enter_Texetchang(object sender,EventArgs e)
```

```
{
```

```
    if (textBox1.Text.Trim() != "")
```

```
        textBox1.BackColor = Color.Red;
```

```
    else
```

```
        textBox1.BackColor = Color.White;
```

```
}
```

```
private void putton2_mousEnter(object sender , EventArgs e)
```

```
{
```

```
    button1.BackColor = Color.Red;
```

```
    button1.ForeColor = Color.White;
```

```
}
```

```
private void putton1_leave(object sender, EventArgs e)
```

```
{
```

```
    button1.BackColor = Color.Gray;
```

```
    button1.ForeColor = Color.Black;
```

```
}
```

```
private void button2_Click(object sender, EventArgs e)
```

```
{
```

```

        this.Close();
    }

    public bool isnumber(string s)
    {
        for(int i=0;i<s.Length;i++)

            if (s[i] >= 48 && s[i] <= 57)
                return true;
            return false;

    }

    private void Form1_FormClosing(object sender, FormClosingEventArgs
e)
    {
        MessageBox.Show("Good by");
    }
}
}

```

//

البرنامج الثاني

المهندس ايمن الادريسي

ادخل عدد العناصر

ادخل الرقم

اضافه الى المصفوفه

حذف العناصر

عرض العناصر

listBox1

الجمع

تنظيف

```
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 chessInterface
```

```
{
```

```
    public partial class Form4 : Form
```

```
    {
```

```
        private string[] arr;
```

```
        int i = 0, m = 0;
```

```
        public Form4()
```

```
        {
```

```
            InitializeComponent();
```

```
        }
```

```
        private void ElementCount_TextChanged(object sender, EventArgs e)
```

```
        {
```

```
            bool f = CountElement.Text != "";
```

```
            addArray.Enabled = ShowElements.Enabled = DelArray.Enabled =  
listBox1.Enabled = textBox1.Enabled = SumOfElement.Enabled = f;
```

```
            listBox1.Items.Clear();
```

```
            //textBox1.Text = "";
```

```
        }
```

```
private void CountElement_KeyPress(object sender, KeyPressEventArgs e)
```

```
{  
    if (e.KeyChar < 48 || e.KeyChar > 57)  
        e.Handled = true;  
    if (e.KeyChar == 8)  
        e.Handled = false;  
}
```

```
private void CountElement_MouseLeave(object sender, EventArgs e)
```

```
{  
    if(CountElement.Text.Trim()!="")  
    {  
        m = int.Parse(CountElement.Text);  
        i = 0;  
        arr = new string[m];  
    }  
}
```

```
private void ShowElemens_Click(object sender, EventArgs e)
```

```
{  
    listBox1.Items.Clear();  
    if (i > 0)  
        for (int j = 0; j < i; j++)  
        {
```



```

        listBox1.Items.Add(arr[j]);
    }
else
    MessageBox.Show("that is not found elements");
//listBox1.Items.AddRange(arr);
}

```

```

private void DelArray_Click(object sender, EventArgs e)
{
    int b = listBox1.Items.Count;
    if(b>0)
    {
        for (int j = 0; j < i; j++)
            listBox1.Items.Remove(listBox1.Items[0]);
        i = m = 0;
        arr = new string[0];
        CountElement.Clear();
        Element.Clear();
        textBox1.Clear();
        Form4_Load(null, null);
    }
else
    MessageBox.Show("القائمة فارغة");
}

```

```

private void SumOfElement_Click(object sender, EventArgs e)
{
    textBox1.Clear();
    int s=0;
    if(i>0)
    {
        for (int j = 0; j < i; j++)
            s +=int.Parse(arr[j]);
        textBox1.Text = s.ToString();
    }
    else
        MessageBox.Show("القائمة فارغة");
}

```

```

private void Form4_Click(object sender, EventArgs e)
{
    Random r = new Random();
    this.BackColor = Color.FromArgb(r.Next(0, 255), r.Next(0, 255),
r.Next(0, 255));
}

```

```

private void Form4_Load(object sender, EventArgs e)
{

```

```
        addArray.Enabled = ShowElemens.Enabled = DelArray.Enabled =  
listBox1.Enabled=textBox1.Enabled = SumOfElement.Enabled = false;  
    }
```

```
private void addArray_Click(object sender, EventArgs e)  
{  
    if (Element.Text.Trim() != "")  
    {  
        if (i < m)  
        {  
            arr[i++] = Element.Text.ToString();  
            Element.Focus();  
            Element.Clear();  
  
        }  
        else  
        {  
            MessageBox.Show("تجاوزت حجم المصفوفة");  
            Element.Clear();  
        }  
    }  
    else  
    {  
        MessageBox.Show("ادخل الرقم");  
    }  
}
```

```
}  
}  
}
```

////////////////////////////////////

البرنامج الثالث

المهندس ايمن الادريسي

عدد الطالب اسم الطالب معدل الطالب

اضافه الى المصفوفه

عرض العناصر

listBox1

تنظيف ترتيب

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 المحاضره_الرابعه_الاستاذ_نجم
```

```
{
```

```
    public partial class Form1 : Form
```

```
    {
```

```
        string[] a;
```

```
        int i = 0, j = 0, n = 0;
```

```
        string[] name;
```

```
        public Form1()
```

```
        {
```

```
            InitializeComponent();
```

```
        }
```

```
        private void numar_KeyPress(object sender, KeyPressEventArgs e)
```

```
        {
```

```

        if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar) )
        {
            e.Handled = true;
        }

    }

    private void numbering_KeyPress(object sender, KeyPressEventArgs e)
    {
        if (!char.IsControl(e.KeyChar) && !char.IsDigit(e.KeyChar))
        {
            e.Handled = true;
        }
    }

    private void showelment_Click(object sender, EventArgs e)
    {
        listBox1.Items.Clear();
        if (i > 0)
        {
            for (int g = 0; g < i; g++)
            {

```

```
        listBox1.Items.Add("{ " + name[g] + "\t" + a[g] + " }");

    }

}

else

    MessageBox.Show("لا توجد عناصر في المصفوفة");

}
```

```
private void numar_MouseLeave(object sender, EventArgs e)

{

    j = Convert.ToInt32(numar.Text);

    a = new string[j];

    name=new string[j];

}
```

```
private void button1_Click(object sender, EventArgs e)

{

    i = j = n=0;

    a.Clone();

}
```

```
listBox1.Text.Clone();  
numar.Clear();  
numbering.Clear();  
stuname.Clear();  
name.Clone();
```

```
}
```

```
private void add_TextChanged(object sender, EventArgs e)
```

```
{
```

```
}
```

```
private void stuname_KeyPress(object sender, KeyPressEventArgs e)
```

```
{
```

```
    if (e.KeyChar < 48 || e.KeyChar > 57)
```

```
    {
```

```
        e.Handled = false;
```

```
        if (e.KeyChar == 8)
```

```
            e.Handled = false;
```

```
    }
```



```
}
```

```
private void sort_Click(object sender, EventArgs e)
```

```
{
```

```
    int arr = Convert.ToInt32(a[0]);
```

```
    for(int f = 0; f < j; f++)
```

```
    {
```

```
        for (int d=0;d<j; d++)
```

```
        {
```

```
            if (Convert.ToInt32(a[f]) > Convert.ToInt32(a[d]))
```

```
            {
```

```
                string str = a[f];
```

```
                a[f] = a[d];
```

```
                a[d] = str;
```

```
                string na = name[f];
```

```
                name[f] = name[d];
```

```
                name[d] = na;
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

```
private void numar_TextChanged(object sender, EventArgs e)
```

```
{
```

```
}
```

```
private void addar_Click(object sender, EventArgs e)
```

```
{
```

```
    if (numbering.Text.Trim() != "" && stuname.Text.Trim() != "")
```

```
    {
```

```
        if (i < j)
```

```
        {
```

```
            a[i++] = numbering.Text.ToString();
```

```
            name[n++] = stuname.Text;
```

```
            stuname.Clear();
```

```
            stuname.Focus();
```

```
            numbering.Clear();
```

```
            numbering.Focus();
```

```
        }
```

```
    else
```

```
    {
```

```
        MessageBox.Show("لقد تجاوزت الحجم المدخل");
```

```
        numbering.Clear();
```

```
        numbering.Focus();
```

```
    }  
}  
else  
    MessageBox.Show("يرجى ادخال العدد");  
  
}  
}  
}
```