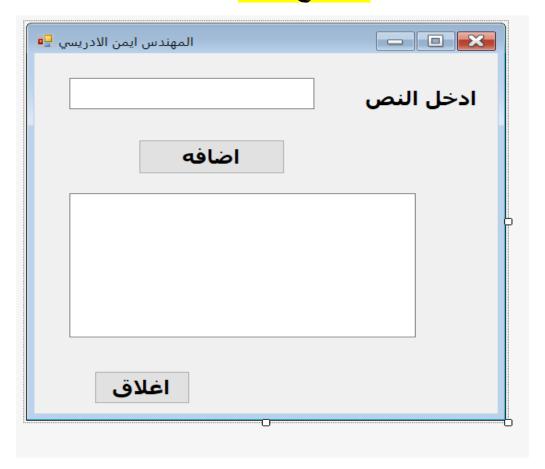
الاسم /ايمن شايف عبدالله خالد الادريسي مدرس المقرر / نجم الدين الدغار

البرنامج الأول



```
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)
      ترحيب". "اضغط على الواجهه للحصول على الوان ")MessageBox.Show
,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++)</pre>
       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
```



```
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 != "";
      addAray.Enabled = ShowElemens.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++)
        {
```

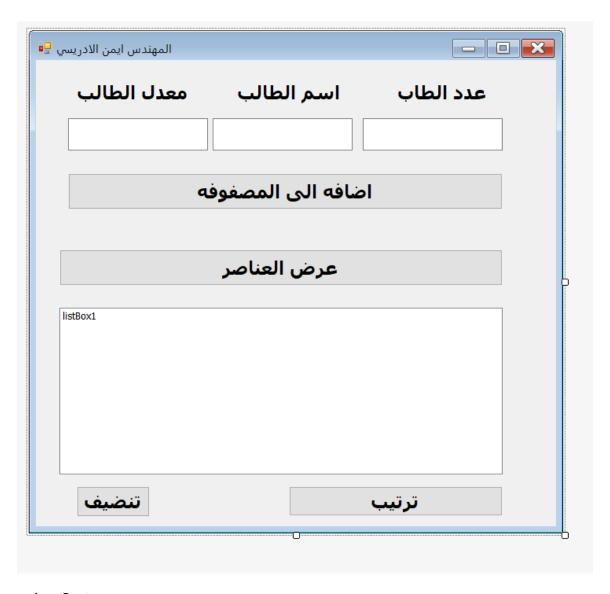
```
listBox1.Items.Add(arr[j]);
    }
  else
    MessageBox.Show("that is not found elements");
  //listBox1.ltems.AddRange(arr);
}
private void DelArray_Click(object sender, EventArgs e)
{
  int b = listBox1.Items.Count;
  if(b>0)
  {
    for (int j = 0; j < i; j++)
      listBox1.Items.Remove(listBox1.Items[0]);
    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)
    {
```

```
addAray.Enabled = ShowElemens.Enabled = DelArray.Enabled =
listBox1.Enabled=textBox1.Enabled = SumOfElement.Enabled = false;
    }
    private void addAray_Click(object sender, EventArgs e)
      if (Element.Text.Trim() != "")
      {
        if (i < m)
        {
          arr[i++] = Element.Text.ToString();
          Element.Focus();
          Element.Clear();
        }
        else
        {
          ("تجاوزت حجم المصفوفة");
            Element.Clear();
        }
      }
      else
      {
        MessageBox.Show("الدخل الرقم");
      }
```

```
}
}
}
```


البرنامج الثالث



using System;

```
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System. Drawing;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
المحاضره الرابعه الاستاذ نجم namespace
{
  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.ltems.Add("{ " + name[g] + "\t" +a[g] + " }");
    }
  }
  else
    ("لاتوجد عناصر في المصفوفه");
}
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
    {
      ("لقد تجاوزت الحجم المدخل") MessageBox.Show
      numbering.Clear();
      numbering.Focus();
```

```
}
else
MessageBox.Show("يرجا الخال العدد");
}
```