

برمجة مرئية C#

المحاضرة العاشرة

علوم حاسوب وتقنية المعلومات - مستوى ثالث - ترم اول

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المشروع الأول: التعامل مع الاقراص والملفات

قبل التنفيذ



بعد التنفيذ



```

using System;
using System.Drawing;
using System.Windows.Forms;
using System.IO;
namespace shuma_lct2
{
    public partial class Form30 : Form
    {
        public Form30()
        {
            InitializeComponent();
        }
        private void Form30_Load(object sender, EventArgs e)
        {
            comboBox1.DropDownStyle = ComboBoxStyle.DropDownList;
            comboBox1.Items.Add("*.png");
            comboBox1.Items.Add("*.jpg");
            comboBox1.Items.Add("*.jpeg");
            comboBox1.Items.Add("*.txt");
            comboBox1.SelectedIndex = 1;
            //  comboBox1.Items.Add("*."); جميع الامتدادات
            //-----
            //pictureBox1.Visible = false;
            //pictureBox1.Visible = false;
            //pictureBox1.Top = pictureBox1.Top; pictureBox1.Left =
pictureBox1.Left;
        }
        private void driveListBox1_SelectedIndexChanged(object sender,
EventArgs e)
        {
            dirListBox1.Path = driveListBox1.Drive;
            // fileListBox1.Path = dirListBox1.Path;
        }
        private void dirListBox1_SelectedIndexChanged(object sender,
EventArgs e)
        {
            fileListBox1.Path = dirListBox1.Path;
        }
        private void comboBox1_SelectedIndexChanged(object sender,
EventArgs e)
        {
            fileListBox1.Pattern = comboBox1.Text.Trim();
        }
        private void fileListBox1_SelectedIndexChanged(object sender,
EventArgs e)
        {

```

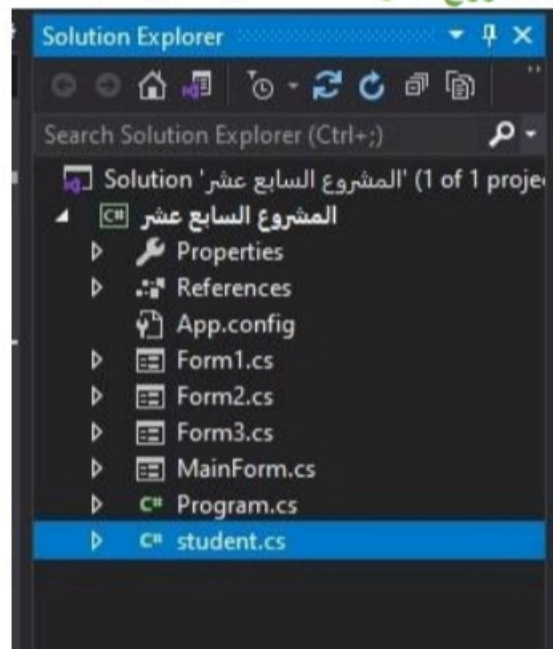
```

        label4.Text = fileListBox1.Path + "\\\" +
fileListBox1.FileName;
        label5.Text = Path.GetFileName(label4.Text);
        // label5.Text = fileListBox1.FileName;
        label6.Text = Path.GetExtension(label4.Text);
        if (label6.Text.Trim().ToLower() == ".txt")
        {
            richTextBox1.Text = File.ReadAllText(label4.Text);
            pictureBox1.Image = null;
            //richTextBox1.Visible = true;
            //pictureBox1.Visible = false;
        }
        else if(label6.Text.ToLower() == ".png" ||
label6.Text.ToLower() == ".jpg" || label6.Text.ToLower() == ".jpeg")
        {
            pictureBox1.Image = Image.FromFile(label4.Text);
            richTextBox1.Text = "";
            //pictureBox1.Visible = true;
            //richTextBox1.Visible = false;
        }
    }
}
}
}

```

المشروع الثاني: توظيف بعض الاساليب البرمجية على المحاضرات السابق

الملفات الخاصة بالمشروع كامل

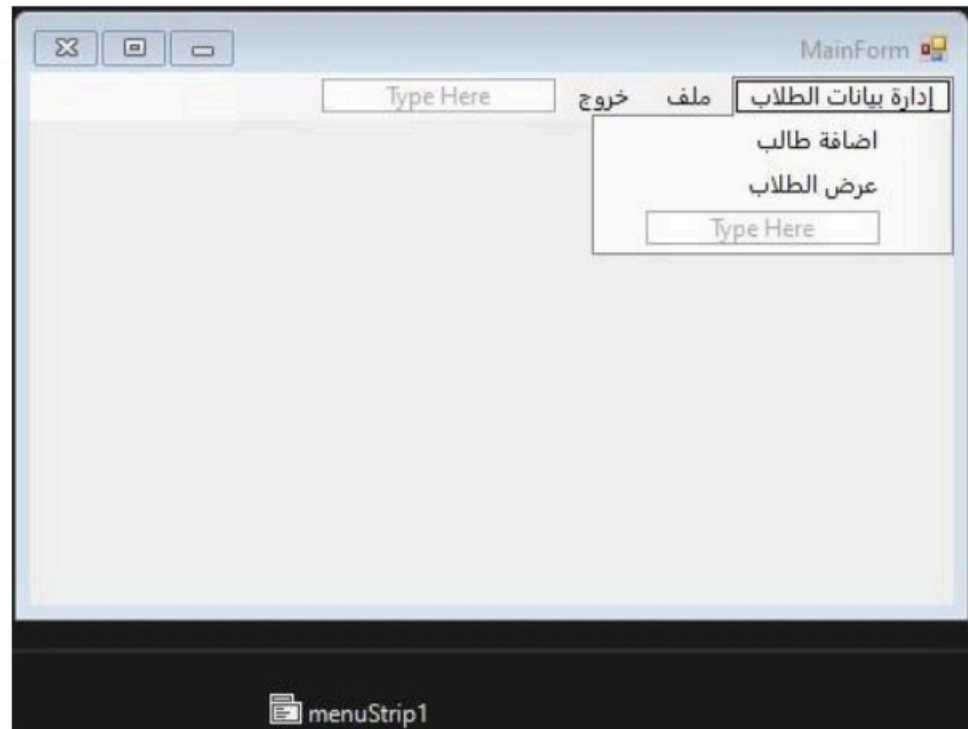


Student class

```
namespace المشروع_السابع_عشر
{
    public class student
    {
        private int number;
        private string name;
        private string birthdate;
        private string imgpath;
        public void SetNumber(int number)
        {
            this.number = number;
        }
        public void SetName(string name)
        {
            this.name = name;
        }
        public void SetBirthdate(string birthdate)
        {
            this.birthdate = birthdate;
        }
        public void SetImgPath(string imgpath)
        {
            this.imgpath = imgpath;
        }
        public int Getnumber()
        {
            return number;
        }
        public string GetName() => name;
        public string GetBirthdate()=> birthdate;
        public string GetImgPath()=> imgpath;
    }
}
```

الواجهة الرئيسية:

MainForm



الكود

```
using System;
using System.Windows.Forms;

namespace المشروع_السابع_عشر
{
    public partial class MainForm : Form
    {
```



```

public MainForm()
{
    InitializeComponent();
}
Form1 f1;
private void اضافةToolStripMenuItem_Click(object sender,
EventArgs e)
{
    if (f1 == null || f1.IsDisposed)
    {
        f1 = new Form1();
        f1.Show();
    }
    else
    {
        f1.Focus();
    }
}
private void خروجToolStripMenuItem_Click(object sender,
EventArgs e)
{
    Application.Exit();
}
Form2 f2;
private void عرضالطلابToolStripMenuItem_Click(object sender,
EventArgs e)
{
    if (f2 == null || f2.IsDisposed)
    {
        f2 = new Form2();
        f2.Show();
    }
    else
    {
        f2.Focus();
    }
}

private void اغلاقToolStripMenuItem_Click(object sender,
EventArgs e)
{
    int count = Application.OpenForms.Count;
    if (count > 1)
    {
        Application.OpenForms[count - 1].Close();
    }
}

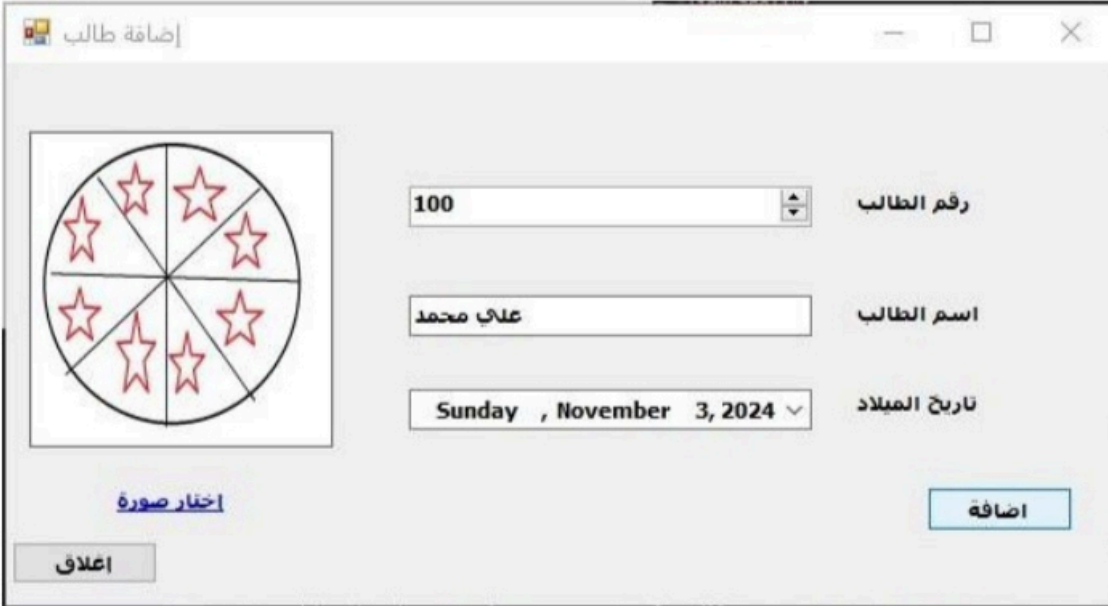
```

```

private void اغلاق الكل ToolStripMenuItem_Click(object sender,
EventArgs e)
{
    int count = Application.OpenForms.Count;
    if (count > 1)
    {
        for (int i = count - 1; i >= 1; i--)
            Application.OpenForms[i].Close();
    }
}
}
}

```

عند الضغط على إضافة طالب من الواجهة الرئيسية



The screenshot shows a Windows Form titled "إضافة طالب" (Add Student). On the left, there is a circular logo divided into eight segments, each containing a red star. Below the logo is a button labeled "إغلاق" (Close). To the right of the logo, there are three input fields: a numeric spinner box containing "100", a text box containing "علي محمد", and a date picker showing "Sunday , November 3, 2024". Below these fields is a button labeled "إضافة" (Add). At the bottom left, there is a button labeled "اختار صورة" (Choose Image).

الكود

```

using System;
using System.Drawing;
using System.Windows.Forms;

namespace المشروع_المابع_عشر
{
    public partial class Form1 : Form
    {
        public static student[] s = new student[100];
        public static int count = 0;
        public Form1()
        {
            InitializeComponent();

```



```

    }
    bool isChoceImage = false;
    private void button1_Click(object sender, EventArgs e)
    {
        if (count < 100)
        { // يجب أخذ إحتياط ان الاسم ليس فارغا ولا يحتوي ارقام
            if (isChoceImage)
            {
                s[count] = new student();
                s[count].SetNumber(Convert.ToInt32(numericUpDown1.V
blue));

                s[count].SetName(textBox1.Text);
                s[count].SetBirthdate(dateTimePicker1.Text);
                s[count].SetImgPath(openFileDialog1.FileName);
                count++;
                isChoceImage = false;
                pictureBox1.Image = null;
                numericUpDown1.Value = 0;
                textBox1.Text = "";
                MessageBox.Show("تم إضافة الطالب بنجاح", "نجاح");
            }
            else
                MessageBox.Show("الرجاء إختيار صورة الطالب", "تحذير");
        }
        else
            MessageBox.Show("الحد المسموح به مائة طالب فقط", "تحذير");
    }
    private void button2_Click(object sender, EventArgs e)
    {
        this.Close();
    }
    private void button3_Click(object sender, EventArgs e)
    {
        // openFileDialog1.Filter =
        "img(*.jpg)|*.jpg|(img*.bmp;*.png)|*.bmp;*.png";
        // if (openFileDialog1.ShowDialog() == DialogResult.OK)
        //     pictureBox1.Image =
        Image.FromFile(openFileDialog1.FileName);
    }
    private void linkLabel1_LinkClicked(object sender,
    LinkLabelLinkClickedEventArgs e)
    {
        openFileDialog1.Filter =
        "img(*.jpg)|*.jpg|(img*.bmp;*.png)|*.bmp;*.png";
        if (openFileDialog1.ShowDialog() == DialogResult.OK)
        {

```

```

        pictureBox1.Image =
Image.FromFile(openFileDialog1.FileName);
        isChocImage = true;
    }
}
}
}

```

عند الضغط على عرض الطلاب من الواجهة الرئيسية

الكود

```

using System;
using System.Drawing;
using System.Windows.Forms;

namespace المشروع_السابع_عشر
{
    public partial class Form2 : Form
    {
        public Form2()
        {
            InitializeComponent();
        }
        void loadStudenstData()
        {
            for (int i = 0; i < Form1.count; i++)
            {
                listBox1.Items.Add(Form1.s[i].Getnumber().ToString());
                listBox2.Items.Add(Form1.s[i].GetName().ToString());
            }
        }
    }
}

```

```

        listBox3.Items.Add(Form1.s[i].GetBirthdate().ToString()
);
        //يتم عرض اخر صورة
        pictureBox1.Image =
Image.FromFile(Form1.s[i].GetImgPath());
    }
}
private void Form2_Load(object sender, EventArgs e)
{
    loadStudenstData();
    //-----
    listBox1.SelectedIndexChanged += findSelectedIndexList;
    listBox2.SelectedIndexChanged += findSelectedIndexList;
    listBox3.SelectedIndexChanged += findSelectedIndexList;
}
public static int index=-1;
void findSelectedIndexList(object sender, EventArgs e)
{
    if (((ListBox)sender).SelectedIndex != -1)
    {
        index = listBox3.SelectedIndex = listBox2.SelectedIndex
= listBox1.SelectedIndex = ((ListBox)sender).SelectedIndex;

        pictureBox1.Image =
Image.FromFile(Form1.s[index].GetImgPath());
    }
}
//زر حذف
private void button1_Click(object sender, EventArgs e)
{
    if (listBox1.SelectedItem!=null)
    {
        listBox1.Items.Remove(listBox1.SelectedItem);
        listBox2.Items.Remove(listBox2.SelectedItem);
        listBox3.Items.Remove(listBox3.SelectedItem);
        for (int i = index; i < Form1.count; i++)
            Form1.s[i] = Form1.s[i + 1];
        Form1.count--;
        if (Form1.count >= 1)
        {
            // pictureBox1.Image =
Image.FromFile(Form1.s[Form1.count - 1].GetImgPath());//لاحظ الفرق
            pictureBox1.Image =
Image.FromFile(Form1.s[0].GetImgPath());
            listBox1.SelectedIndex = listBox2.SelectedIndex =
listBox3.SelectedIndex = 0;
        }
    }
}

```

```

        else
            pictureBox1.Image = null;
    }
}
//زر اغلاق
private void button4_Click(object sender, EventArgs e)
{
    this.Close();
}
//زر تعديل
private void button3_Click(object sender, EventArgs e)
{
    if (listBox1.SelectedItem!=null)
    {
        Form3 f = new Form3();
        f.ShowDialog();
        listBox1.Items[index] = Form1.s[index].Getnumber();
        listBox2.Items[index] = Form1.s[index].GetName();
        listBox3.Items[index] = Form1.s[index].GetBirthdate();
        pictureBox1.Image =
Image.FromFile(Form1.s[index].GetImagePath());
    }
}
//زر تحديث
private void button2_Click(object sender, EventArgs e)
{
    listBox1.Items.Clear();
    listBox2.Items.Clear();
    listBox3.Items.Clear();
    loadStudenstData();
}
}
}

```


عند الضغط على زر تعديل من واجهة عرض الطلاب



الكود

```
using System;
using System.Drawing;
using System.Windows.Forms;
namespace المشروع_السابع_عشر
{
    public partial class Form3 : Form
    {
        int index;
        public Form3()
        {
            InitializeComponent();
        }
        private void Form3_Load(object sender, EventArgs e)
        {
            loadStudentData();
        }
        void loadStudentData()
        {
            index = Form2.index;
            numericUpDown1.Value =
Convert.ToDecimal(Form1.s[index].Getnumber());
            textBox1.Text = Form1.s[index].GetName();
            dateTimePicker1.Text = Form1.s[index].GetBirthdate();
            pictureBox1.Image =
Image.FromFile(Form1.s[index].GetImgPath());
        }
        private bool isUpdateImage = false;
        private void button1_Click(object sender, EventArgs e)
        {
            Form1.s[index].SetName(textBox1.Text);
        }
    }
}
```

```

        Form1.s[index].SetNumber(Convert.ToInt32(numericUpDown1.Value));
        Form1.s[index].SetBirthdate(dateTimePicker1.Text);
        if (isUpdateImage)
        {
            Form1.s[index].SetImagePath(openFileDialog1.FileName);
        }
        Close();
    }
    private void button2_Click(object sender, EventArgs e)
    {
        Close();
    }
    private void linkLabel1_LinkClicked(object sender,
    LinkLabelLinkClickedEventArgs e)
    {
        openFileDialog1.Filter =
        "img(*.jpg)|*.jpg|(img*.bmp;*.png)|*.bmp;*.png";
        if (openFileDialog1.ShowDialog() == DialogResult.OK)
        {
            isUpdateImage = true;
            pictureBox1.Image =
            Image.FromFile(openFileDialog1.FileName);
        }
    }
}
}
}
}

```