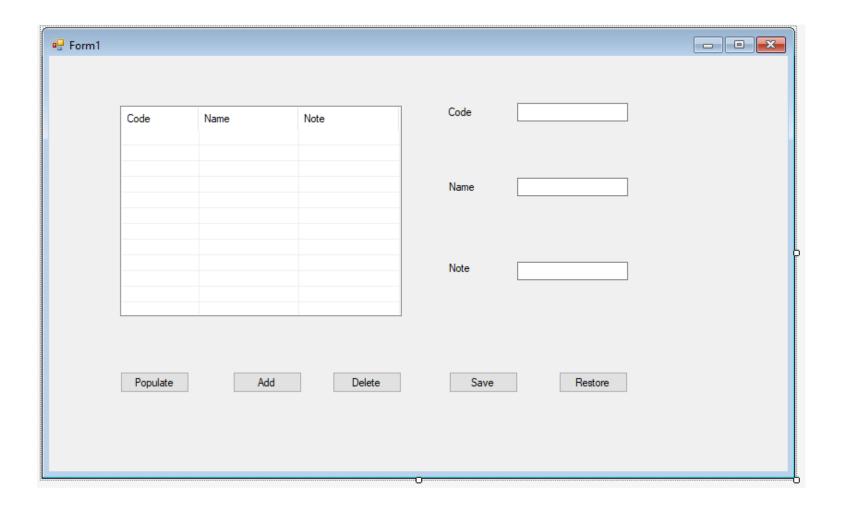
THE LECTURE 12

CRUD OPERATIONS IN WINDOWS FORMS

WORKING WITH TEXT FILES

- · 1. Reading text files
- · a. using System.IO;
- b. FileStream file = new FileStream ("file.txt", FileMode.Open, FileAccess.Read);
- · 2. Writing text files
- a. FileStream file = new FileStream ("file.txt", FileMode.Create, FileAccess.Write);
- b. StreamWriter sw = new StreamWriter (file);
- · c. sw.Write ("Hello");
- d. sw.Close();

DATA APPLICATION



ADDING STUDENT CLASS

```
⊡using System;
 using System.Collections.Generic;
 using System.Linq;
 using System.Text;
using System.Threading.Tasks;
□ namespace Files_Application
     class Student
         private int code;
         private string name;
         private float note;
         Ссылок: 0
         public Student(int c, string n, float nt)
             code = c;
             name = n;
             note = nt;
         Ссылок: 0
         public int Code
             get { return code; }
             set { code = value; }
         public string Name
             get { return name; }
             set { name = value; }
         Ссылок: О
         public float Note
             get { return note; }
             set { note = value; }
```

ADDING ACTIONS OF BUTTONS

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

Student[] vs = new Student[4];

vs[0] = new Student(111, "Andrew Jackson", 10);

vs[1] = new Student(130, "Ordy Knight", 12);

vs[2] = new Student(140, "Shawn Ryne", 15);

vs[3] = new Student(150, "Alyson Floyd", 16);

foreach(Student s in vs)

ListViewItem item = new ListViewItem(s.Code.ToString());

item.SubItems.Add(s.Note.ToString());

listView1.Items.Add(item);

}
```

```
private void button2_Click(object sender, EventArgs e)
{
    try
    {
        Student s = new Student(Convert.ToInt32(tbCode.Text),tbName.Text, (float)Convert.ToDouble(tbNote.Text));
        ListViewItem item = new ListViewItem(s.Code.ToString());
        item.SubItems.Add(s.Name);
        item.SubItems.Add(s.Note.ToString());
        listView1.Items.Add(item);
    }
    catch(Exception ex)
    {
        MessageBox.Show("Error Input Data!", ex.Message);
    }
    finally
    {
        tbCode.Clear();
        tbName.Clear();
        tbName.Clear();
    }
}
```

ADDING ACTIONS OF BUTTONS

```
ссылка: 1
private void button3 Click(object sender, EventArgs e)
   foreach(ListViewItem item in listView1.Items)
       if (item.Checked == true)
           item.Remove();
private void button4 Click(object sender, EventArgs e)
   FileStream fs = new FileStream("student.txt", FileMode.Append, FileAccess.Write);
   BinaryFormatter bf = new BinaryFormatter();
   ArrayList aList = new ArrayList();
   foreach (ListViewItem item in listView1.Items)
       aList.Add(item);
   bf.Serialize(fs, aList);
   fs.Close();
   listView1.Items.Clear();
private void button5_Click(object sender, EventArgs e)
   FileStream fs = new FileStream("student.txt", FileMode.Open, FileAccess.Read);
   BinaryFormatter bf = new BinaryFormatter();
   ArrayList aList = (ArrayList)bf.Deserialize(fs);
   for (int i = 0; i < aList.Count; i++)
       listView1.Items.Add((ListViewItem)aList[i]);
   fs.Close();
```

LISTVIEW METHODS

```
ргіvate void listView1_ItemChecked(object sender, ItemCheckedEventArgs e)

{
    if (e.Item.Checked)
        e.Item.BackColor = Color.Gray;
}

ссылка:1

private void listView1_ItemActivate(object sender, EventArgs e)

{
    foreach (ListViewItem item in listView1.Items)
        if (item.Selected == true)
            item.ForeColor = Color.OrangeRed;
}
```

THE FORM'S VIEW

₽ Form1						_	×
	Code	Name	Note	Code			
				Name			
				Note			
	Populate	Add	Delete	Save	Restore		
	7 7 7 3 3 3	7.00					

THE FORM'S VIEW

Form1						_	×
	Code	Name	Note	Code			
	111	Andrew Jackson					
	140	Shawn Ryne	10 15				
	150	Alyson Floyd	16				
	160	Landy Oils	75	Name			
				Nume			
				Note			
				J			
	Populate	Add	Delete	Save	Restore		
	1 opulate	Add	Delete	Save	riestore		