Lesson 2 form property & lesson 3 showing messagebox & lesson 4 variables

Toolbox 里面有具体的项目, property 可以改颜色字体

在 property 上有个 lightening button, 是可以改变它的 event,

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从 messagebox 打印出东西来:
int a = 10;
MessageBox.Show(a.ToString());
Object 可以 fold anything, object myObj = true;
Lesson 5 change property:
button2.Text = "hover"; 用 button 的 design name
button1.Enabled = false; 会把 button disable 当点击后
button1.height = 60; 改变 button 的高度
textBox1.Text = "Adam" 通过 button 改变 textbox 的内容
textBox1.MaxLength = 2; 改变 textBox 的 string 的长度
lesson 6 If statement
lesson 7 more if statement
检查 checkbox 是否被 check
         if (checkBox1.Checked == true) {
              MessageBox.Show("THe checkBox is checked");
Lesson 9 switch statement
Switch(textBox1.text)
{
      Case "Adam"
       MessageBox.show("Hello");
       break;
      Case "bob"
       MessageBox.show("yo");
       break;
```

```
Default
       MessageBox.show("yoo")'
       break;
}
Lesson 10 mathmatic operation
Int a = 5;
Int b = 3;
MessageBox.show((a-b).ToString());
A++; a--;
Lesson 11 array
String [] Names = {"Adam","Bob","Joe"};
String [] Names = new string [3];
Lesson 12 List
Do not need to speciliaze how many elements inside the list, 但是 array 中 需要说明多少个
element
List<object> Names = new List<object>();
Names.Add(1);
Lesson 13 for and foreach loop
 Names.Add("admas");
 Names.Add("yii");
 foreach (string s in Names)
   MessageBox.Show(s);
 }
Lesson 14 while and do while loop
Lesson 15 Try, Catch and Finally
      try
               string[] names = new string[2];
               string s = names[2];
           catch {
               MessageBox.Show("There was a error");
Finally: no matter we got error in try catch or not, we will
```

```
try
               string[] names = new string[2];
               string s = names[2];
           }
           catch (Exception ex)
               MessageBox.Show("There was a error " + ex.Message);
          finally {
              MessageBox.Show("your code is done");
Lesson 16, 17 Methods
Method is any blocks of codes that you want to use more than once
比如 function
       void Message(string message, string title) {
          MessageBox.Show(message,title);
       }
Messagebox.Show(Message("adams"));
void Message(string name) {
      return name;
       }
Lesson 18 continue and break
Lesson 19 Namespace and classes
Namespace is used for organize class, struct and interface
Can create a namespace inside a namespace
Namespace myNamespace{
      Namespace space1{
       }
}
using Mynamespace; 加上 别的 cs file 里面当你想用这个 namespace
form 自带的 namespace, using System.Windows.Forms;
windows 是在 system 里面的 namespace, Forms 是在 system 里面的 namespace
System.Windows.Forms.MessageBox.show()
Lesson 20 Constructors
namespace Mynamespace
   class Class1
```

```
{
      string Name;
      public Class1(string name){
          Name = name;
   }
}
Constructor can has multiple constructors
Lesson 21 Access Modifier and static
      private string name() {
           return Name;
如果不加 private 或者 public default 是 public
Static methods is to access without create the class
      public static void showMessage(string message) {
          System.Windows.Forms.MessageBox.Show("static method");
      }
Static is called modifier and public/private is called as access modifier
Lesson 22 Overloading Methods and Enumerations
      public static void showMessage(string message) {
          System.Windows.Forms.MessageBox.Show("static method");
      public static void showMessage(int message) {
          System.Windows.Forms.MessageBox.Show(message.ToString());
根据 parameter 的不同, overload function
      enum Names1
      {
          Adam = 1,
          Joe = 4,//similar to array, adam is 0, Joe = 0, 可以改变他们的值, next element
总比前一个大一
          Bob,
       }
Names1 myName = Names1.Adam; // My names hold adam which is default 0
可以改变 enum 的数值 成为 bytes
      enum Names1:byte
          Adam,
           Joe,
          Bob,
       }
```

```
Lesson 23 create your own properties
      public string Name
          get; // let user to read
          set; // let user to change property
      }
namespace Mynamespace
  class Class1
  {
      public Class1(string name){
          Name = name; // 把名字给到 property
      }
      public string Name // 不用括号
          get; // let user to read
          set; // let user to change property
      }
  }
}
Class1 mc = new Class1("adams");
MessageBox.Show(mc.Name); // 不用括号
public string Name
      {
          get; // let user to read
          private set; // let user to change property 只能在 class 内部修改,不能外部修改,
      }
Read only property
string mystring;
public Class1(string name){
     mystring = name;
}
public string Name
{
     get { return mystring; } // let user to read
          //private set; // let user to change property
 }
set {
         if (value == "") System.Windows.Forms.MessageBox.Show("You can't do that ");
 }
```

```
Lesson 24 Throwing Exceptions
if (name == "") throw new Exception("You can't set string equal to an empty string.");
      Exception exp = new Exception("You can't set string equal to an empty string.")
      public checkstring(string name)
          if (name == "") throw new Exception(exp)
之后就可以在 main 加上打印 exception
Try{
      Myclass.checkstring("")
Exception (exception ex){
      MessageBox.show(ex.Message)
}
Lesson 25 Inheritance and overriding
  class Class1
    {
   class MysecondClass : Class1 {
    } 继承的可以所有 parent class function
   假如用 base class 的内容(non private member(pubkic))
   用 base.age
   Class 也可以用 protected, protected int Age = 10;
    Protected 的话, derived class 可以用 parent 的 protected 的, 但是 outside class 不能用
```

Override function 用 new