# VB的基本语法学习

## VB直接输出

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| Public Class Form1  Private Sub Form1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load  '输出数据到控制台  Console.Write("xxxxxx")  End Sub  End Class |

F6编译数据

F5运行数据

## VB的数据类型

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| --- |
| Public Class Form1  Private Sub Form1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load  '输出数据到控制台  Console.Write("xxxxxx")  'String 类型数据  Dim a, b As String  a = "yellowcong"  b = "hello"  Console.Write(a + b)  'int类型的数据  '声明数据  Dim i, j As Integer  i = 5  j = 5  Console.WriteLine("加法" + CStr(i + j))  'String 类型数据  Dim str As String  str = "1"  '将String类型的转化为int类型的数据  j = CInt(str)  Console.WriteLine("数据转化" + CStr(j))  '判断语句  If i = j Then  Console.WriteLine("相等")  ElseIf i > j Then  Console.WriteLine("数据大于")  End If  Dim nums(3) As Integer  nums(0) = 1  nums(1) = 2  nums(2) = 3    '循环语句  For x As Integer = 0 To 2 Step 1  Console.WriteLine("数组中的数据" + CStr(nums(x)))  Next  '其中Step 可以去掉，不用管  For x As Integer = 0 To 2  Console.WriteLine("数组中的数据" + CStr(nums(x)))  Next  'While循环  Dim x2 As Integer  x2 = 0  While x2 < 2  Console.WriteLine("While 循环" + CStr(nums(x2)))  x2 = x2 + 1  End While  'Do  '第二种生明  '生命数组的方法  Dim ages As Array = {1, 2, 3, 4, 5, 6, 7, 8}  Dim x3 As Integer = 0  Do  Console.WriteLine(ages(x3))  x3 = x3 + 1  Loop Until x3 = 2  End Sub  End Class |

### 数组的操作

使用For Each函数

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| Public Class Form2  Private Sub Form2\_Load(sender As Object, e As EventArgs) Handles MyBase.Load  Dim names As Array = {"yellowcong", "xiaolu"}  Dim name As String  For Each name In names  Console.WriteLine("数组中的数据\t" + name)  Next  End Sub  End Class |

### 集合数据的操作

ArrayList

Collection

数组功能很强大，但Array基类并没为数组提供更多的功能，比如排序、动态分配内存。为了更强大的功能产生了集合。

集合（Collections)名称空间是System名称空间的一部分，它提供系列高级功能。

对不同的用处，System.Collections名称空间提供了几个强大的类：

ArrayList 实现一个数组，其大小在添加元素时自动增加大小（不必烦恼数组的上限或用ReDim、Preserve）

BitArray 管理以位值存储的布尔数组

Hashtable 实现由键组织的值的集合（Key,Value)，排序是基于键的散列完成的（哈希函数）

Queue 实现先进先出集合（排序方式）

Stack 实现后进先出集合

SortedList 实现带有相关的键的值的集合，该值按键来排序，可以通过键或索引来访问

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| --- |
| Public Class Form2  Private Sub Form2\_Load(sender As Object, e As EventArgs) Handles MyBase.Load  Dim names As Array = {"yellowcong", "xiaolu"}  Dim name As String  For Each name In names  Console.WriteLine("数组中的数据\t" + name)  Next  'ArrayList  Dim list As New ArrayList  list.Add("yellowcong")  list.Add("yellow lu ")  For Each xx As String In list  ' Console.WriteLine("ArrayList数据" + xx)  '弹出对话框  MsgBox("ArrayList数据" + xx)  Next  End Sub  End Class |

### Map 数据

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| 'HashTable数据  Dim map As New Hashtable  map.Add("name", "yellowcong")  map.Add("age", "22")  map.Add("sex", "男")  '定义中间键  Dim entry As DictionaryEntry  '通过中间键来获取数据  For Each entry In map  Console.WriteLine(entry.Key + ":" + entry.Value)  Next  Dim age As String = map.Item("age")  Console.WriteLine("直接获取" + age) |

## 设定ListBox 的数据