

Advanced Visual Basic .NET Programming

Introduction.....	1
Object Variables	2
Declaration.....	2
Assignment	3
AutoInstantiation	3
Referring to Objects Using Object Variables	3
Example TextBox	4
Keyword “Nothing”	5
TypeName function	5
TypeOf..Is Operator.....	5
Form.ActiveControl.....	5
Example TypeOf.....	6
Example Change.....	7
Exercise 1	8
Form Variables	9
Example FormObj.....	9
Object Arrays.....	10
Declaring Arrays.....	10
The ReDim Statement.....	11
Example FormArray	11
Exercise 2.....	13
MDI (Multiple Document Interface) Forms	14
Creating an MDI Parent Form	14
Example MDI.....	14
Creating and Opening an MDI Child Form.....	15
Referring to the Current MDI Child Form.....	16
Form.ActiveMdiChild.....	17
Toolbars	18
Windows Forms Toolbar Controls	18
Window Menu	20
Exercise 3	21

Introduction to Object-Oriented Programming.....	22
Abstraction and Encapsulation	22
Classes (Object Types)	22
Creating a Class Module.....	22
Properties	22
Methods	23
Testing the Sticker Class.....	24
With...End With Structure	25
Events.....	25
Event Arguments	26
Inheritance	27
Create a New ColorSticker Class.....	27
Test the New ColorSticker Class	27
Overriding.....	28
 Exercise 4.....	 29
 Creating a Windows Forms User Control.....	 30
Creating a User Control Project.....	30
Creating a Visual Interface	30
Creating a Test Project.....	30
Adding Properties to Your User Control	31
Inheriting from a User Control	31
Creating a New Inherited Control.....	32
Extending an Inherited Control with New Properties.....	32
Extending the Graphical Interface and Adding an Alarm	32
Sounding the Alarm	33
Testing the AlarmClock Control.....	33
Turning Off the Alarm	34
 Exercise 5.....	 35
 Support for Legacy Automation Servers	 36
 Appendix A: Visual Basic .NET Keywords	 37
 Appendix B: Suggested Object Naming Prefixes.....	 36
 Appendix C: Visual Basic .NET Reference Books	 37
 Appendix D: Solutions to Exercises	 39