Programming C# 6, Part 11 of 12: Advanced Class Features

Meet the expert: Don Kiely is a featured instructor on many of our SQL Server and Visual Studio courses. He is a nationally recognized author, instructor, and consultant specializing in Microsoft technologies. Don has many years of teaching experience, is the author or co-author of several programming books, and has spoken at many industry conferences and user groups. In addition, Don is a consultant for a variety of companies that develop distributed applications for public and private organizations.

Prerequisites: This course builds upon:

Programming C# 6: Getting started

Programming C# 6: Your First App

Programming C# 6: Projects and Syntax

Programming C# 6: Variables and Data Types

Programming C# 6: Adv Data Types and Operators

Programming C# 6: Strings, File I/O and Date Types

Programming C# 6: Conditions and Looping

Programming C# 6: Objects and Classes

It is considered a more Intermediate to advanced topic after you have

gone through these other courses.

Runtime: 02:21:40

Course description: Here veteran programmer and instructor Don Kiely delves deep into the robust features baked deep within C#. Kiely will review the programming tools necessary to create enterprise-class code and focuses on one of the key features of object-oriented programming, inheritance, and how to create it using derived classes.

Course outline:

Inheritance
- Introduction
- Demo: Base Class Members
- Inheritance
- Inheritance - The Solution
- Inheritance - A Step Further
- Summary

Derived Classes
- Introduction
- Demo: Inherited Members
- Demo: New Fields
- Demo: Individual Customer
- Summary

Override and Overload Members
- Introduction
- Demo: Moving Properties
- Demo: Override Properties
- Demo: Overload Members
- Demo: Inheriting Variables
- Demo: Base
- Demo: Base Example
- Summary

Abstract Classes and Members
- Introduction
- Abstract Classes and Members
- Demo: Abstract Class
- Demo: Deriving from Abstract Class
- Demo: Abstract Class Implementation
- Demo: Partially Abstract Class
- Summary

Sealed Classes and Members
- Introduction
- Sealed Classes and Members
- Demo: Sealed Class
- Demo: Sealed Members
- Summary

Interfaces
- Introduction
- Interfaces
- Demo: Interface
- Demo: Implementing Interfaces
- Summary

Interfaces in .NET Framework
- Introduction
- Demo: IComperable
- Demo: Comparisons
- Summary

Partial and Nested Classes
- Introduction

(Continued on page 2)

Programming C# 6, Part 11 of 12: Advanced Class Features

• Partial Classes
• Demo: Partial Class
• Demo: Nested Classes
• Demo: Using Nested Classes
• Demo: Private Nested Classes
• Summary

Namespaces
• Introduction
• Namespaces
• Demo: Namespaces
• Demo: Multiple Namespaces
• Summary