

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

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**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.

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**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: IComparable
- Demo: Comparisons
- Summary

### Partial and Nested Classes

- Introduction

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- 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