Programming C# 6, Part 08 of 12: Objects and Classes

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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, Your First App, Projects and Syntax and Variables and Data Types.

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Course description: Classes are one of the fundamental concepts of C# application development, because you'll often need to work with more complex data than C#'s base data types. Classes serve as a blueprint or design: they can't be used directly as components of an application, but you can use them to create objects whose form and behavior you control. In this course, you'll learn about classes and objects in C#, and then learn how to create your own classes, how to declare and define them, how to use them to store data, and how to imbue them with behaviors.

Course outline:

Objects and Classes
- Introduction
- Demo: FileInfo & DirectoryInfo
- Demo: System.IO Namespace
- Classes as Templates
- Class Constructors
- Summary

Class Properties and Methods
- Introduction
- Demo: Class Properties
- Demo: Static vs. Instance
- Demo: Class Methods
- Summary

Creating a Class
- Introduction
- Creating Your Own Class
- Demo: Create a Class
- Demo: Class Contents
- Demo: Documentation
- Demo: Intellisense
- Summary

Visual Studio for Classes
- Introduction
- Demo: Class View
- Demo: Class Designer
- Demo: Class Members
- Demo: Private Members
- Summary

Implement Class Code
- Introduction
- Demo: Class Structure
- Demo: Constructors
- Demo: Flesh Out the Code
- Demo: Read-Only Field
- Summary

Add Class Methods
- Introduction
- Demo: Add a Method
- Demo: TestCustomer2
- Demo: Getting Customer Info
- Summary