Programming C# 6, Part 03 of 12: Projects and Syntax

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 is an entry level course. Some amount of programming experience will be helpful and speed up your learning but you can jump right into this course at any level.

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Course description: The purpose of any general-purpose programming language is to provide a syntax that supports various features to manipulate data and interact with its environment. C# has rich support for this kind of syntax, and you'll begin to explore it in this course. You'll learn about the structure of C# code, then will start to learn about C# statements and expressions that let you perform complex operations with your code.

Course outline:

Anatomy of a C# Program
- Introduction
- C# Program Structure
- Demo: Hello, World!
- Namespaces
- Root Namespaces
- Nested Namespaces
- Demo: Namespaces
- Demo: Namespace Rules
- Classes
- Demo: Classes
- Program Entry Point
- Summary

Project Folders and Files
- Introduction
- Demo: Project Structure
- Demo: Project Files
- Summary

Statements and Expressions
- Introduction
- Statements
- Demo: Statements
- Expressions
- Demo: Expressions
- Demo: Assignments
- Summary

Language Syntax
- Introduction
- Comments
- Demo: Block Comments
- Demo: Adding Comments
- Whitespace
- Demo: Using Whitespace
- Demo: Whitespace Cont.
- Summary

Preprocessing Directives
- Introduction
- Compilation Symbols
- Demo: Compilation Symbols
- Demo: Conditional Methods
- Errors and Warnings
- Demo: Errors and Warnings
- Regions
- Demo: Regions
- Summary