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

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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 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