# 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 coauthor 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

