Programming C# 6, Part 04 of 12: Variables and Data Types

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: Variables and data types are a core feature of any programming language, and you'll learn about them in this course. You'll see how to name, declare, and initialize variables, as well as a way to let the compiler determine the appropriate data type, and why you may or may not want to do that. Then you'll learn about many of the built-in data types provided by C# and the .NET Framework, letting you manage just about any kind of data in memory. The course wraps up with a look at three advanced types: constants, enumerations, and structures.

Course outline:

Variables
• Introduction
• Introducing Variables
• Naming Variables
• Declaring Variables
• The var Keyword
• Demo: var Keyword
• The var Keyword Cont.
• Variable Lifetime and Scope
• Demo: Variable Scope
• Demo: Variable Scope Cont.
• Summary

Data Types
• Introduction
• Introducing Data Types
• Data Types
• Data Types Cont.
• Numeric Data Types
• Choosing an Integer Type
• Demo: Integer Data Types
• BigInteger Data Type
• Demo: BigInteger
• Summary

Floating Point Data
• Introduction
• Floating-Point Data Types
• Decimal Data Type
• Demo: Floating-Point Types
• Demo: Floating-Point Cont.

• Summary

Characters
• Introduction
• Char Data Type
• ASCII Characters
• Demo: Char Data Type
• String Data Types
• Demo: String Data Type
• Demo: Escape Characters
• Other Data Types and Objects
• Demo: Boolean Data Type
• Demo: Object Data Type
• Summary

Constants and Enums
• Introduction
• Constants
• Demo: Contstants
• Enumerations
• Demo: Enumerations
• Structures
• Demo: Structures
• The Complex Structure
• Demo: Complex Structure
• Summary