



900 XP

# Control variable scope and logic using code blocks in C#

37 min • Module7 Units

Beginner

Developer

Higher Education Educator

K-12 Educator

Student

.NET

Visual Studio Code

Use code blocks with more confidence, understanding how they impact the visibility and accessibility of both higher and lower-level constructs in your code.

## Learning objectives

After you complete this module, you'll be able to:

- Understand the impact of declaring and initializing variables inside and outside of code blocks
- Remove code blocks in if statements to improve readability when there's only one line of code in the body of the code block
- Describe the purpose and scoping hierarchy for namespaces, classes, and methods

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## Prerequisites

- Experience creating simple C# applications that include console I/O and access the methods of .NET classes such as String and Random
- Experience using Visual Studio Code to develop, build, and run C# console applications that implement arrays, if-elseif-else statements, and foreach statements
- Experience using operators to evaluate an expression or condition in C#

**This module is part of these learning paths**

## Add logic to C# console applications (Get started with C#, Part 3)

### Introduction

3 min

### Exercise - Code blocks and variable scope

11 min

### Exercise - Remove code blocks from if statements

6 min

### Exercise - Complete a challenge activity using variable scope

6 min

### Review the solution to the variable scope challenge activity

6 min

### Knowledge check

3 min

### Summary

2 min