900 XP

Guided project - Develop conditional branching and looping structures in C#

1 hr 40 min • Module 8 Units

Beginner   Developer   Higher Education Educator   K-12 Educator   Student   .NET

Visual Studio Code

Gain experience developing a console app that implements selection and iteration statements to achieve app specifications.

Learning objectives

In this module, you'll practice how to:

- Use Visual Studio Code to develop a C# console application that uses a combination of selection and iteration statements to implement logical workflows in accordance with supplied application data and user interactions.
- Evaluate the underlying conditions and make an informed decision when choosing between if-elseif-else and switch statements, and between foreach, for, while, and do iteration statements.
- Scope variables at an appropriate level within an application.

Start ›   ⊕ Add

Prerequisites

- Experience using Visual Studio Code to develop, build, and run C# console applications that include console I/O and access the methods of .NET classes
- Experience using C# code to evaluate conditional expressions and manage variable scope inside and outside of code blocks
- Experience using if-elseif-else and switch-case statements in C# to match a variable or expression against several possible outcomes

- Experience using foreach, for, do, and while statements in C# to loop through a block of code and access elements of array variables

This module is part of these learning paths

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

Introduction
6 min

Prepare
9 min

Exercise - Build sample data and menu selection loops
25 min

Exercise - Write code to display all ourAnimals array data
15 min

Exercise - Build and test a loop for entering new pet data
20 min

Exercise - Write code to read and save new ourAnimals array data
20 min

Knowledge check
3 min

Summary
2 min