



700 XP

Challenge project - Develop branching and looping structures in C#

1 hr 8 min • Module6 Units

Beginner

Developer

Higher Education Educator

K-12 Educator

Student

.NET

Visual Studio Code

Demonstrate your ability to develop a console app that implements selection and iteration statements to achieve app specifications.

Learning objectives

In this module, you'll demonstrate your ability 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.

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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

4 min

Prepare

9 min

Exercise - Ensure that petAge and petPhysicalDescription contain valid information

25 min

Exercise - Ensure that pet nicknames and personality descriptions are complete

25 min

Knowledge check

3 min

Summary

2 min