C# Programming Homework 02

Chapter 02, C# Step by Step

**Readings**

Read chapter 2 in the *C# Step by Step* book.

# Discussion Questions

Answer the discussion questions in writing for chapter 2.

1. What is a *local* variable?

A variable that’s created within curly braces

1. What is a *statement*?

A command that performs an action

1. What is an *identifier*?

The names that you use to identify the elements in your programs such as namespaces

1. What is a *keyword*?

77 identifiers C# reserves for its own use that you cannot reuse for your own purposes

1. What is a *variable*?

A storage location that holds a value. A named location in computer memory. Integers, Float point numbers and Strings

1. How do you declare a variable? How do you assign a value to a variable? Can you have a variable that does not have a value? Can you declare and initialize a variable in a single statement?

You declare a variable in a declaration statement. You assign a value with an equal sign with the variable on the left and the value on the right. Yes.

1. What does Visual Studio when you open a project (a .csproj file) without opening the solution (a .sln file)? Why might this be a problem?

It will automatically create a new solution file and it can be a problem because you can have multiple solutions for the same project.

1. How are arithmetic operators and variable types related?

The operators you use depends on the type of variable you have

1. How do you turn an integer into a string?

ToString()

1. How do you turn a string into an integer?

Use Int32 TryParse()

1. What is the difference between precedence and associativity? Give an example where this makes a difference.

Precedence is the order in which an expression is evaluated, and Associativity is the direction in which the operands are evaluated. 3 + 4 \* 5 and (3 + 4) \* 5

1. What is the *definite assignment rule*?

Every variable must have a value

1. How are the prefix and postfix increment and decrement operators evaluated differently?

Count++ is the value of count before the increment or decrement and ++count is the value of count after the increment or decrement

1. What is *string interpolation*?

Is a method of linking, formatting, and manipulating strings

1. What does the *var* keyword do? Declares implicit variables, causes the compiler to deduce

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