C# Programming Homework 01

Chapter 01, C# Step by Step

# Homework

**Readings**

Read chapter 1 in the *C# Step by Step* book.

**Discussion Questions**

Answer the discussion questions in writing for chapter 1.

1. What is a console app?

An app that runs in the command prompt

1. List two differences between .NET *Framework* and .NET *Core*. Note that in this class, we will be writing C# applications in .NET Framework and ASP.NET applications in NET Core.

.Net Core runs on other systems but do not have all the features of .Net Framework

1. What does Main() (the main method) do in a console application?

It is the first method invoked., the entry point of the app

1. Describe these three files: TextHello.sln, TextHello.csproj, and AssemblyInfo.cs.

.sln is a solution file used to find and load name-value parameters, .csproj contains a list of files in your project including references to the system assemblies, .cs is a source code file

1. What is the purpose of a *namespace*?

It is to name the project

1. Describe specifically what *using* statements do.

Provides a convenient syntax that ensures the correct use of IDisposable objects

1. What is the entry point for a console app? What is the entry point for a UWP app?

Both are the Main Method

1. What is an *assembly*?

An assembly is a DLL or EXE file that contains the output code of an application

1. How many different versions of the WriteLine() method does the Console class contain?

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1. What is the relationship between an assembly and a namespace?

There is no relation

1. What is a graphical app?

A system of interactive visual components for computer software

1. What does Build do?

Compiles all the code files that have changed

1. (Not in book) What is bytecode? What is Microsoft CIL? Do you think that CIL is bytecode? Why or why not?

Bytecode is a program code that has been compiled from source code into low-level code designed for a software interpreter. Microsoft CIL is Common Intermediate Language and it is bytecode because it translates source code into CIL code.

1. What does Debug do? It allows you to see what your code is doing while your app is running

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