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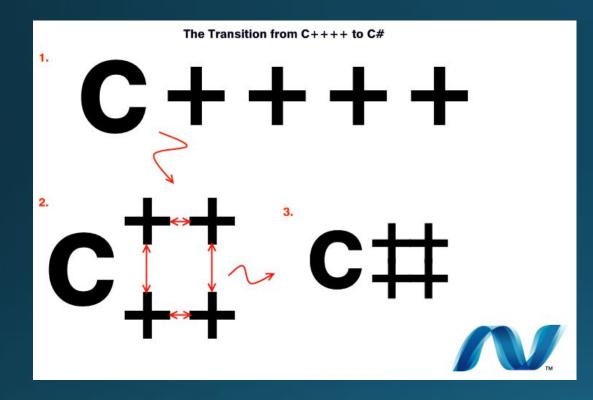
C#

• C# is a general-purpose, object-oriented programming language. It was developed by Microsoft within its .NET initiative.

Name

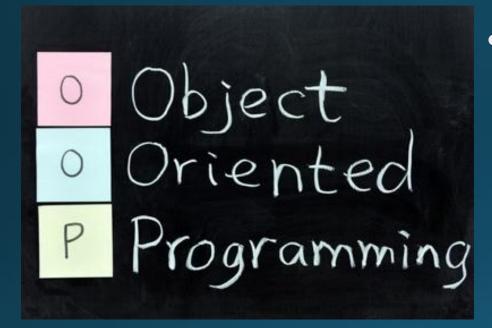
• The name "C sharp" was inspired by musical notation where a sharp indicates that the written note should be made a semitone higher.

Name



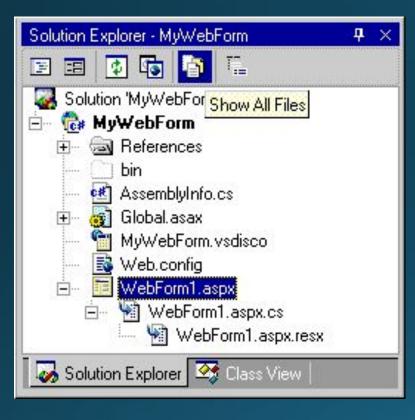
• This is similar to the language name of C++. The sharp symbol also like a ligature of four "+" symbols, which means that the language is an increment of C++.

OOP



• Object-oriented programming (OOP) is a programming paradigm based on the concept of "objects", which may contain data and code.

General Structure



• C# programs can consist of one or more files. Each file can contain zero or more namespaces.

// A skeleton of a C# program using System; namespace YourNamespace

class YourClass

i }

struct YourStruct

}
interface IYourInterface
{

delegate int YourDelegate();

enum YourEnum
{
}
namespace YourNestedNamespace
{
 struct YourStruct

{ } }

class YourMainClass

static void Main(string[] args)
{
 //Your program starts here...
}

General Structure

• A namespace can contain types such as classes, structs, interfaces, enumerations, delegates and other namespaces.

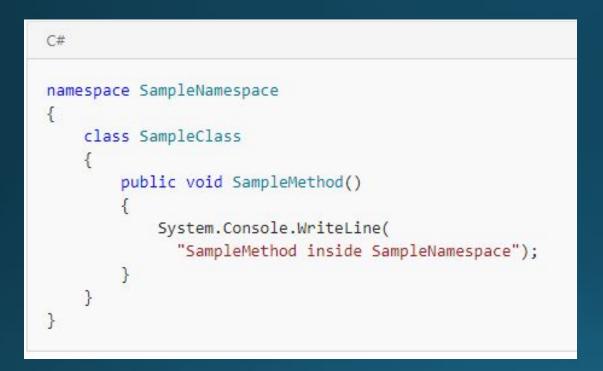
Namespaces

C#

System.Console.WriteLine("Hello World!");

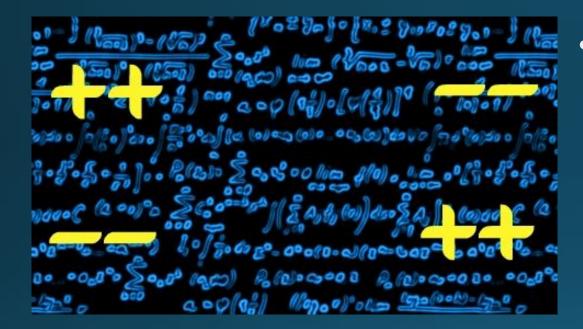
 Namespaces are heavily used in C# programming in two ways. First, the .NET Framework uses namespaces to organize its many classes.

Namespaces



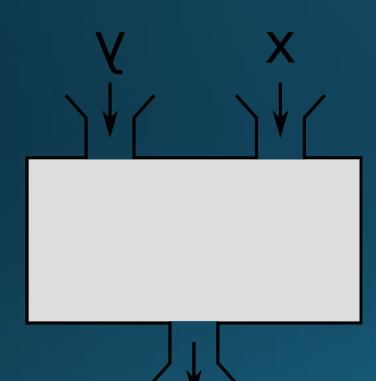
 Second, declaring your own namespaces can help you control the scope of class and method names.

Operators



 In C#, an operator is a program element that is applied to one or more operands in an expression.
 Operators that take one operand are named to as unary operators.

Operators



• Operators that take two operands are named to as *binary* operators.

list of sources used:

https://en.wikipedia.orghttps://docs.microsoft.com