C# DataTypes

Data Types in a programming language describes that what type of data a variable can hold . CSharp is a strongly typed language, therefore every variable and object must have a declared type. The CSharp type system contains three Type categories. They are Value Types , Reference Types and Pointer Types . In CSharp it is possible to convert a value of one type into a value of another type . The operation of Converting a Value Type to a Reference Type is called Boxing and the reverse operation is called Unboxing .

When we declare a variable, we have to tell the compiler about what type of the data the variable can hold or which data type the variable belongs to.

Syntax

DataType : The type of data that the variable can hold
VariableName : the variable we declare for hold the values.
Example

int : is the data type
count : is the variable name
The above example shows , declare a variable 'count' for holding an integer values.

The following are the commonly using datatypes in C# .

bool
The bool keyword is an alias of System.Boolean. It is used to declare variables to store the Boolean values, true and false. In C# , there is no conversion between the bool type and other types.

C# Runtime type : System.Boolean
CSharp declaration : bool flag;
CSharp Initialization : flag = true;
CSharp default initialization value : false