Data Types		Type Conversion Methods	Naming Conventions			
bool	Boolean value	ToBoolean	Class	MyClass		
byte	8-bit unsigned integer	ToByte	Method	MyMethod		
char	16-bit Unicode character	ToChar	Local variable	myLocalVariable		
decimal	128-bit precise decimal values with	ToDateTime	Private variable	$_{\sf myPrivateVariable}$		
	digits	ToDecimal	Constant	MyConstant		
double	64-bit double-precision floating poi	ToDouble				
float	32-bit single-precision floating poin	ToInt16	Arrays			
int	32-bit signed integer	ToInt32	<pre>int[] array = new int[]</pre>	int[] {1, 2, 3}		
long	64-bit signed integer	ToInt64	$int[] array = \{1,2,3\}$			
object	Base type for all other types	ToSbyte	var array = new int[]	$ar array = new int[] \{1, 2, 3\}$		
sbyte	8-bit signed integer	ToSingle	int[] array = new int[3]			
short	16-bit signed integer	ToString				
string	String value	ТоТуре				
uint	32-bit unsigned integer	ToUInt16				
ulong	64-bit unsigned integer	ToUInt32				
ushort	16-bit unsigned integer	ToUInt64				

Statements		Classes			Access Modifiers	
if-else	if (true) $\{\}$ $\{\{nl\}\}$ else $\{\{nl\}\}$ else $\{\}$	Class	public class Dog {}		public	Accessible by any other code in the same assembly or another assembly that
switch	<pre>switch (var) {{{nl}}case default: break; }</pre>	Inheritance	<pre>public class Dog: Pet {}</pre>		private	references it Only accessible by code in the same class or
for	for (int $i = 1$; $i < 5$; $i++$)	Constructor (no	public Dog () {}	Coi		struct
foreach-in	foreach (int item in array	parameters)		CO-	protected	Only accessible by code in the same class or
while	while (true) {}	Constructor (one	public Dog (string	Coi		struct, or in a derived class
do while	do {} {{nl}} while (tru		var) {}	CO-€	internal	Accessible by any code in the same assembly, but not from another assembly
try-catch-finally	try $\{\}$ $\{\{nl\}\}$ catch $\{E\}$ $\{\{nl\}\}$ catch $\{\}$ $\{\{nl\}\}$	Field	public string name			Accessible by any code in the same assembly, or by any derived class in another
			public static class Dog {}	Mu me	protected internal	
		Static Member	public static int = 1			assembly
		Finalizer (destructor)	~Dog () {}		nnot have modifiers parameters	

Other Modifiers		Other Modifiers (cont)		Comparison Operators	
abstract	Indicates that a class is intended	virtual	Declares a method or an accessor	1	Less than
	class of other classes		implementation can be changed b member in a derived class Indicates that a field can be modi by something such as the operatir hardware, or a concurrently execu	>	Greater than
async				<=	Less than or equal to
	expression, or anonymous method			>=	Greater than or equal to
const	Specifies that the value of the fiel variable cannot be modified				Equal to
event	Declares an event			!=	Not equal to
extern	Indicates that the method is imple	Assignme	ent Operators		
new	Explicitly hides a member inherite	=	Simple assignment	Arithm	etic Operators
override	Provides a new implementation of	+=	Addition assignment	+	Add numbers
override	inherited from a base class	-=	Subtraction assignment	-	Subtract numbers
partial	Defines partial classes, structs and throughout the same assembly	*=	Multiplication assignment	*	Multiply numbers
		/=	Division assignment	/	Divide numbers
readonly	Declares a field that can only be a part of the declaration or in a con same class	%=	Remainder assignment	%	Compute remainder of division of numbers
		& =	AND assignment	++	Increases integer value by 1
		=	OR assignment		Decreases integer value by 1
sealed			XOR assignment		
static	Declares a member that belongs t instead of to a specific object	<<=	Left-shift assignment		
unsafe	Declares an unsafe context	>>=	Right-shift assignment		

Logical and Bitwise Operators				
&&	Logical AND			
	Logical OR			
!	Logical NOT			
&	Binary AND			
	Binary OR			
^	Binary XOR			
~	Binary Ones Complement			
<<	Binary Left Shift			
>>	Binary Right Shift			

Other Operators				
sizeof()	Returns the size of a data type			
typeof()	Returns the type of a class			
&	Returns the address of a variable			
*	Pointer to a variable			
?:	Conditional expression			
is	Determines whether an object is of a specific type			
as	Cast without raising an exception if the cast fails			