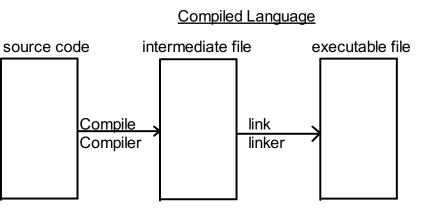
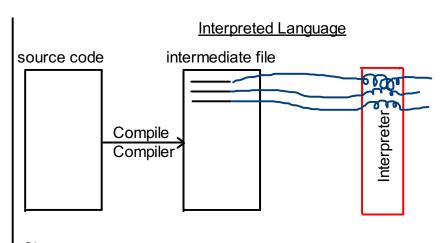
Program: is a set of instruction that solve a problem program is written using a programming Language



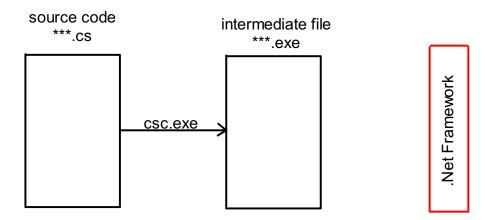
Faster Platform Dependent



Slower Platform Independent

C# Programming Language

C# is case sensetive



C# Program skelton

```
class MyClass
{
         public static void Main()
         {
                variable declaration
                      expression
          }
}
```

variable Declaration:

variable is a named location in the memory that hold a value, can be changed

Data Type:

Data Type:			
Data type	size (byte)	Range	
byte	1	0 -> 255	integer value
sbyte	1	-128 -> 127	integer value
short	2	-32768 -> 32767	integer value
ushort	2	0 -> 65535	integer value
int	4	-ve -> +ve	integer value
uint	4	0 -> +ve	integer value
long	8	-ve -> +ve	integer value
ulong	8	0 -> +ve	integer value
float double decimal	4 8 16	-1.5*E-45->3.4*E38	floating number (9 Precision) floating number (17 Precision) floating number (29 Precision)
char	2		Unicode character
bool		true / false	
string			string of character
string			string of character

Naming:

- *)name consist of character, number and _ only
- *)Can't start with number
- *)Not from reserved word
- *) name express what it do
- *) start with Capital letter
- *) if name consist of 2 or more part, each part start with Capital letter or separated with _

declaring variable:

data_type var_name;

examples:

int x; //un-initialized variable

char ch = 'a';

float I, m = 2.3, n;

You CAN'T use un-initialized local variable

```
Expression:
       I/P
               statement
        O/P
               statement
       Operation
        Control statement
I/P statement:
       int x;
       string str;
       str = System.Console.ReadLine();
       x = int.Parse(str);
OR
       x = int.Parse(System.Console.ReadLine());
char ch = System.Console.Read(); //Read 1 character
O/P statement:
       System.Console.Write();
       System.Console.WriteLine();
  Print Constant Value:
       System.Console.WriteLine("Welcome");
        System.Console.WriteLine(99);
  Print Variable Value:
       int x = 5:
        System.Console.WriteLine("{0}", x);
        System.Console.WriteLine(x);
  Print Mix from Constant and Variable:
       int x = 5;
        System.Console.WriteLine("The Value of (0) + (0) = (1)"
        System.Console.WriteLine(\The Value of \{x\} + \{x\} = \{x + x\}^n);
        System.Console.WriteLine("The Value of " + x + " + " + x + " = " + (x+x));
```