.Net provides support for various languages.

It is plateform independent. It provides language interoperability.

Its completely Object Oriented language (100%).

**Encapsulated**: Means completely inside the class.

What is **platform Independent**?

There is one machine. A machine may have different hardware and OS. There is a limit to no of instruction executed. Suppose a machine execute instructions i1,i2,i3… i3.

Machine M1 compiles the source code and convert it to Assembly

Source Code(C,C++)

Language Code which is partially compilation which is MSIL()

MS intermediate language code( not binary). The MSIL code is

Converted to binary using Machine translator to convert Machine m1

Into binary (executable code). MSIL is given

to client.

Object code i1,i2,i3…i78

**Platform dependent** means after compiling the source code, if

another machine can execute i1,i2.. i50 but there are some



instruction i70 which it cannot execute, is called

machine dependent.

c# VB.net J#

Msil code

Compilers

The compiler name is CLR(common language runtime).

Virtual name, interface,

Default access modifier in internal, linq(language integrated queries)

Extension method enables us to add existing types without creating a new derived type or to modify the existing type.

Delegate is a type that represents reference to the method with a particular parameter list and return type.

Lamda expression is anonymous method to represent operation using special syntax.

Difference between Static and abstract class