Lecture Notes

FCL:

* Called Base Class Library.
* Collection of reusable types (classes, interfaces and DT)
* Act as STD Lib
* Integrated with CLR

MSIL (IL):

* Lowest level, defined by CLI.
* ilasm (IL Assembly) tool for proper execution. (I/P- .il file)
* ildasm (IL Diassembler) tool used to extract internal info from .exe / .dll file.

CLR:

* Convert IL code into native code.
* JIT converts compiled code into machine instructions.
* **Virtual Execution System** (VES) as defined in CLI Standard.
* Earlier time, there were 2 applications (.asp and no asp)
* Non asp applications were not understood by CLR and JIT cannot convert it. So, they are passed directly to OS. These were **Unmanaged Components.**

Class modifiers:  
- public, internal (default, scope of assembly is assembly level), abstract, sealed (finally), static, unsafe (class having pointers implementations mark as **unsafe**) and partial (one class but diff files but at the end, we want one exe file, methods and class can be partial).

**Write unsafe with class**

* unsafe class classname

**and where there is pointer in class.**

* unsafe {

//code

}

**Put that code in unsafe block and compile the code with /unsafe filename.**

* csc /unsafe filename

For changing exe file name:

* csc filename /out:newexe.exe

readonly:

* declaration no value, but in entire prog one initialization.
* Dynamically in initialization.