Good morning all of you.

Welcome to Dotnet Learning

Day 2:

Agenda

Learning programming using C# Syntax

.NET Framework

Learn by doing not by just listening

Let us use music, video, conversation for building skill for .net fullStack.

Yes you could develop complete IT solution as fullStack solution using .NET

Yesterday we learn

What is .net

Why .net

How you could think .net as your one more fullstack Development platform

C# language is language

consist of

Power of C

Smartness of C++

Simplicity of Java

and elegance of VB

So Are you ready to explore the world of .net from Micrsoft Certified Trainer ??????????????????????

Let us learn together.

Extension for files

.sln----------------------Visual Studio Solution file

.csproj-------------------Visual Studio Project file

.config------------------Application configuration file ( settings)

.cs----------------------CSharp Source Code file

Compilation process of .net Application

Console Application project type:

soruce code------------CSC.exe--------------------> .Exe ( Self Executable file)------------Assembly

(CSharp Compiler)

Class Library project type:

soruce code------------CSC.exe--------------------> .dll ( Dynamic Link Library)-------------Assembly

( Dependencies)

(CSharp Compiler)

(.cs file)

(CSharp Syntax)----------------------------------> IL Code ( Intermediate Language Code) ( MSIL Code)

Assembly:

a logical unit of deployment to .net platform

using exe as well dll files

Execution of .net Application

When application is submitted for execution :

1.Operating System will create a process

2.Operating System will assign primary Thread for process to exeuctte code available in exe.

3..net runtime will be loaded into process , that is called as CLR (Common Language Runtime) ( like JVM)

4. CLR consist of

Assembly Loader

Code Verifier

Just In Time compiler (JIT)

Garbage Collector

5.CLR will convert IL code into Native Code using JIT.

6.Garbage Collector( GC) takes care of Automatic Memory management for aplication under exeuction (Process)

Mark and Sweep algorithm is used by Garbage Collector

KISS:

Keep it Simple and Stupid