# C# and MVC

Week1:

1. .NET Framework Introduction.
2. Assembly
   * Dot Net Program Execution
   * ILDASM and ILASM
   * Strong naming an assembly
   * GAC
   * How .NET finds the assemblies
   * DLL Hell
   * DLL Hell Problem Solution
3. C# 4.0 basics

* Introduction
* Built-in types
* String type(Escape character \,\n etc) and string(immutable) vs string builder(mutable)
* Operator(??,?:,&&,||,>= ..)
* Nullable Types (By default value types are non nullable. To make them nullable use ?)
* Implicit and explicit conversion(int to flot and float to int ).
* Parse and tryparse(string to int).
* Switch (goto label or case), if , while, do-while, for , foreach other related.
* Namespcaes

1. C# OOPS

* What is class?
* Static instance members
* Inheritance
* Method overloading
* Method overriding(VS hiding)
* Polymorphism
* Why Properties?(get and set)
* Interface
* Abstract class
* Diamond problem
* Multiple inheritance(with interfaces only supported in c#)

1. Other basic concepts:

* Enum
* Delegates(hold reference(Pointer) to a function. ) (<http://venkatcsharpinterview.blogspot.co.uk/2011/05/where-did-use-delegates-in-your-project.html>)

<http://venkatcsharpinterview.blogspot.co.uk/2011/05/where-did-use-delegates-in-your-project_25.html>

* Multicast Delegate (<http://csharp-video-tutorials.blogspot.in/2012/06/part-39-c-tutorial-multicast-delegates.html>)
* Exception handling
* Access Modifiers
* Reflection(just definition)
* Convert.tostring vs tostring
* Generics
* [Optional parameters](http://csharp-video-tutorials.blogspot.com/2013/05/part-67-optional-parameters-in-c.html)

Week 2:

1. data

* Dictionary, list others( for IEnumerable)
* LINQ
* ADO.NET
* Entity framework
* ODATA

1. WCF(<http://www.wcftutorial.net/)>

* WCF ABC(Adress , Binding and Contract concepts)
* Different Bindings in WCF
* Sample Example with basichttpbinding
* Web API( webhttpbing in wcf alternative for rest)

Week 4 & 5:

MVC:

1. Web Form with ajax

* Aspx page creation and adding ajax control to it.
* Jquery and basic javascript.
* Need of MVC

1. ASP.NET MVC4.0

* MVC Introduction.
* Model view controller Introduction.
* Razor (cshtml in mvc 4.0)
* Other related

Week 6 &7 :

1)Angularjs

1. JavaScript Introduction.
2. Angulajs Cocepts.

Week 8:

1. Sample project creation.