

Course Outline .Net Framework & C#

- 1 Overview / Introduction of .Net Framework
 - 1.1 What is .Net Framework
 - 1.2 Component or features of .Net Framework
 - 1.2.1 Common Language Runtime(CLR)
 - 1.2.2 Common Type System(CTS)
 - 1.2.3 Common Language Specification (CLS)
 - 1.2.4 Garbage Collection(GC)
 - 1.2.5 Exception Handling
 - 1.2.5.1 System Exception
 - 1.2.5.2 Application Exception
 - 1.2.6 Threading
 - 1.2.7 Task
 - 1.2.8 Security
 - 1.2.9 Assembly
 - 1.2.9.1 Private Assembly
 - 1.2.9.2 Shared Assembly
 - 1.2.10 MSIL
 - 1.2.11 Managed & Unmanaged Code
 - 1.3 How .Net framework works
 - 1.4 How .net is different from others
- 2 Data Types
 - 2.1 Value Types
 - 2.2 Reference Types
 - 2.3 Memory Management for Value type & Reference Types
- 3 Variables
 - 3.1 Constant
 - 3.2 Read Only
 - 3.3 Static
- 4 Parameters
 - 4.1 Pass as a Value
 - 4.2 Ref
 - 4.3 Out
 - 4.4 Params
 - 4.5 Default Parameter
- 5 Object Oriented Programming Concepts

- 5.1 Class
- 5.2 Objects
- 5.3 Method or Function
- 5.4 Inheritance
 - 5.4.1 Single Level
 - 5.4.2 Multi-Level
- 5.6 Polymorphism
 - 5.6.1 Static or Compile time (Method overloading)
 - 5.6.2 Dynamic or Run time (Method overriding)
- 5.7 Encapsulation
- 5.8 Abstraction
- 6 Constructors
 - 6.1 Default Constructor
 - 6.2 Parameterized Constructors
 - 6.3 Inheritance in Parameter
 - 6.4 Constructor Overloading
- 7 Static Class & Static Property
- 8 Abstract method & Class
- 9 Interface
- 10 Collection
 - 10.1 Non Generic Collection
 - 10.1.1 Array List
 - 10.1.2 Hash Table
 - 10.1.3 Queue
 - 10.1.4 Stack
 - 10.2 Generic Collection
 - 10.2.1 List
 - 10.2.2 Dictionary
 - 10.2.3 KeyValuePair
- 11 Custom Generic Method & Generic Class
- 12 Delegates
 - 12.1 Single Delegate
 - 12.2 Multicast Delegates
 - 12.3 Delegate as a parameter.
 - 12.4 Anonymous Method
 - 12.5 Lambda Expression
 - 12.6 Events

- 13 Partial Class & Partial Method
- 14 Extension Methods
- 15 Return, Continue, Break Statements
- 16 Sealed Class & Sealed Methods.
- 17 Using Statements
- 18 Dispose & Finalize
- 19 Reflection
- 20 Var & Dynamic Types
- 21 IList, IEnumerable, ICollection, IQueryable
- 22 Indexer
- 23 IO (System.IO)
- 24 Destructors

Thanks

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