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**Course Name : Csharp Course Duration: 20 Hours**

**Trainer : Madan.Patakota**

**Office Name : Misard Software Technologies**

1. **Csharp – Intro Concepts**

* Basics Introduction
* Data Types
* Strings
* Operators
* Datatype Conversations
* Introduction on Lists
* Conditional Statements
* Loops
* Understanding Methods

1. **Csharp – Classes and Interfaces**

* Basics Introduction
* Multiple Classes
* Static Classes
* Non Static Classes
* Introduction Namespace
* Understanding Namespace with multiple classes by Virtual and override
* Introduction Inheritance
* Introduction Interface
* Inheritance with class and Multiple interfaces
* Importance of Abstraction
* Understanding Polymorphism
* Compile time Polymorphism and runtime Polymorphism

1. **Methods**

* Methods and return types
* Methods and Parameters
* Introduction of Tasks
* Understanding Async and Await
* Extension Methods

1. **Exception Handling**

* Introduction on Handling the exceptions
* Try , catch and Finally
* Built in Exceptions
* Custom Exceptions
* Quiz : Real time Example

1. **Data containers**

* Arrays
* Introduction of Generics
* Array Lists and Lists
* Dictionary
* HashSet

1. **Access Modifiers**

* Private Protected and Internal
* Pubic and Protected Internal
* Quiz : Bank Application
* Get and Set Accessorise
* Encapsulation

1. **Delegates**

* Introduction
* Lambda Expressions
* Understanding Built-in delegates
* Func vs Action vs Predicate
* Quiz : Real time Example

1. **Dependency Injection**

* Introduction of design Pattern
* Introduction of decoupling system
* Quiz : Real time Example

**Bonus Topics**

* LinQ
* Logging
* Automapper
* SQL Server(Backend)