# Basic C# training Duration: 3 days

**Objective:**

* This course is designed to provide the knowledge of Dot Net Frameworks along with C#.
* After completion of the course the participant will be able to use the features of Dot Net Framework along with the features of C#

**Pre- Requisite:** Basic knowledge of C or C++ or any programming language or programming fundamentals.

# DAY 1 (1/2 day)

* + .Net Core (.net 6) Architecture
  + Different .Net Eco System in existence
  + Creating projects using dotnet cli
  + Using .net with and without visual studio
  + Nuget Packages
  + LABS

# DAY 1 (1/2 day)

* + C# Fundamentals
  + Value types, Ref Types, In and out
  + Arrays
  + Data structures & Looping structures
  + Boxing Unboxing
  + Type conversion - as operator
  + LABS

# DAY 2 (1 day)

* + Memory Management - Heap, Stack, GC
  + Exception Handling
  + Debugging techniques
  + OOPs
  + Classes - Using is Operator
  + Structs
  + Classes Vs Structs
  + Inheritance
  + Abstraction
  + Class level - virtual & abstract
  + Interfaces
  + Different ways of implementation
  + Encapsulation
  + Access Modifiers
  + Data Classes
  + LABS

# DAY 3 (1 day)

* + Sealed Classes
  + Static Classes & members
  + C# Extensions
  + Generics
  + Collections
  + LABS