



## 6 Weeks Training Module in .Net

Visual Studio Version: 2008

.net Framework: 3.5

Database: SQL Server 2008

### Console Programming

#### Introduction to .net framework:

- ◇ History of .net
- ◇ .net framework
- ◇ .net version
- ◇ Features/advantages of .net
- ◇ Architecture of .net framework
- ◇ CLR/CTS
- ◇ Namespaces

#### Programming in C#:

- ◇ Programming structure
- ◇ Variables/Constants
- ◇ Datatypes
- ◇ Various operators
- ◇ Type conversion
- ◇ Decision Making & branching
- ◇ Decision Making & looping

#### Methods in C#:

- ◇ Introduction to Methods
- ◇ Argument passing mechanism
- ◇ Pass by value
- ◇ Pass by reference
- ◇ Output parameters
- ◇ Arrays
- ◇ Manipulating strings

#### OOPS Principle:

- ◇ Basic principles of OOPS
- ◇ Class & Object
- ◇ Access modifiers
- ◇ Constructors & destructors
- ◇ Static members



- ◇ Property procedures
- ◇ this reference

## Inheritance & Polymorphism:

- ◇ Inheritance & polymorphism
  - ◇ Overloading methods
  - ◇ Hiding methods
  - ◇ Abstract class
  - ◇ Abstract methods
  - ◇ Sealed class
  - ◇ Multiple inheritance
  - ◇ Interfaces
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## Windows Programming:

### Introduction

- ◇ Introduction to IDE
- ◇ Introduction to Window Forms
- ◇ Various controls
- ◇ Invoking properties, methods & events in window forms

### Dialog Boxes, Menus & Toolbar

- ◇ Dialog Boxes
- ◇ Menus & Toolbar

### SDI & MDI application

- ◇ SDI forms
- ◇ MDI forms

### Creating Components

- ◇ Creating User controls
- ◇ Accessing User Controls
- ◇ Composite controls

## ADO.net

- ◇ Introduction to ADO.net
- ◇ Architecture of ADO.net
- ◇ Accessing data through connection oriented and connectionless approach
- ◇ Accessing data with datareader
- ◇ Manipulating data using ADO.net
- ◇ Using data adapters
- ◇ Using DataSet
- ◇ Datagridview control

## Exception Handling & Debugging in C#

- ◇ Exception Handling
- ◇ Debugging Mechanism

## Crystal Reports

- ◇ Creating Crystal Reports
  - ◇ Invoking reports on window forms
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