

C# Programming

1. Introduction

- NET and Visual Studio 2008
- NET Projects
- Common Language Runtime
- Visual Studio 2008
- IntelliSense

2. Language Syntax

- Basic C# Syntax
- Comments
- Data Types
- Variables
- Operators
- Conditional Statements
- Looping Structures
- Functions

3. Classes & Objects

- Classes and Objects
- Partial Classes
- Methods, Properties and Events
- Constructors
- Property Procedures
- Enumerations
- Reference vs. Value Types
- Structures
- Namespaces

4. Arrays & Collections

- Arrays
- Resizing Arrays
- Array Lists & Hash Tables
- Generic Collections

5. Windows Forms and Controls

- Control Class
- Buttons

6. Text Boxes Labels, Literals

- Image Controls Picture Box Control
- Panel Control
- Combo Box Control
- List Boxes
- Dropdown Lists
- Date Time Picker Control
- Link Labels
- Check Boxes
- Check Box Lists Radio Buttons
- Radio Button Lists
- Rich Text Box Control
- Tab Control

- Tool Strip Control
- Menu Strip Control

7. Creating Custom Controls

- Create New Controls for Forms
- Create a Control from an Existing Control and Add Functionality

8. Creating MDI Applications

- MDI Applications
- MDI Parent and MDI Child Forms
- Manage Menus

9. ADO.NET (Working with Database)

- Overview of ADO.NET
- Connection Object
- Command Object
- Data Readers
- Data Sets & Data Adapters
- Execute non-query, Execute scalar
- Execute reader
- Data Grid View Control

10. XML

- Reading and Writing XML, Programmatically
- Important Classes in the System.XML Namespace
- Read and Write XML Nodes and Attributes

11. Building Setup Applications

- Installation Package
- Customize a Setup Project
- Control Installation of an Application
- Specify Conditions of an Install
- Custom Actions for after an Installation

12. Exception Handling

- Exception Class
- Try, Catch, Finally
- Working with Exception Handling

13. File Handling

- System, IO Namespace
- Working with Directories and Files
- Read and write file
- Stream Reader and Stream Writer Classes