

# Visual Basic 6.0

## Class Overview:

Visual Basic is a visual and events driven Programming Language. This Visual Basic 6.0 training course is designed for developers or students with some understanding of basic programming concepts from a previous programming background who are moving to a Visual Basic 6. In this course you'll learn Visual Basic syntax, event-driven programming, work with forms and controls, simple database support to your applications, and much more.

## Target Audience:

- Anyone interested in learning about Programming Languages
- Anyone interested in learning IT courses

## Prerequisites:

- Basic Computer Knowledge

## Class Goals

- Learn components of a Visual Basic application.
- Use ActiveX controls.
- Distinguish between event-driven vs. procedural programming.
- Create forms and menus.
- Manipulate form and control properties.
- Compile an application with the native code compiler.
- Debugging errors.
- database support to your application

## Introduction to Visual Basic

- Introduction Graphical User Interface (GUI)
- Programming Language (Procedural, Object Oriented, Event Driven)
- The Visual Basic Environment,
- How to use VB compiler to compile / debug and run the programs.
- Your First Visual Basic Program

## Adding Controls to Forms

- Visual Basic Controls
- Creating and Manipulating New Controls
- Changing Design Time Control Properties
- Visual Basic Built-in Controls
- Textboxes, Frames, Check Boxes , Option Buttons, Images, Setting a Border & Styles
- The Shape Control, The line Control, Working with multiple controls and their properties

## Variables, Constants, and Calculations

- Variables: Public, Private, Static, Constants
- Data Types, Naming rules/conventions
- Declaring variables & Scope of variables
- Arithmetic Operations, Formatting Data.

## Understanding Events

- Introducing Events and Event Procedures
- The Form Load ,Form ,Command Button Click and Text Box Change Events
- The Timer Control's Timer Event, GotFocus/LostFocus Events

## Working with Forms and Controls

- Setting Properties at Run Time
- Setting Form Properties
- Setting Control Properties
- Using ActiveX Controls
- Adding ActiveX Controls to a Project

## Creating and Using Menus

- Menus in Visual Basic
- Using the Menu Editor
- Working with Menus
- Manipulating Menus at Run Time

### Decision & Conditions

- If Statement, If ?then-else Statement,
- Comparing Strings,
- Compound Conditions(And, Or, Not),
- Nested If Statements, Case Structure
- Using If statements with Option Buttons & Check Boxes
- Displaying Message in Message Box

### Menus, Sub-Procedures and Sub-functions

- Defining / Creating and Modifying a Menu
- Using common dialog box
- Creating a new sub-procedure, Passing Variables to Procedures
- Passing Argument By Value or By Reference
- Writing a Function Procedure

### Multiple Forms

- Creating, adding, removing Forms in project
- Hide, Show Method
- Load, Unload Statement, Referring to Objects on a Different Forms

### List

- Loops and Printing List Boxes & Combo Boxes
- Filling the List using Property window / AddItem Method, Clear Method
- List box Properties, Removing an item from a list

### Arrays

- Single-Dimension Arrays
- Initializing an Array using for each
- User-Defined Data Types
- Accessing Information with User-Defined Data Types
- Using List Boxes with Array
- Two dimensional arrays.

### Handling Errors

- Handling Syntax Errors
- Handling Run-Time Errors
- The Error Handling Standard
- Taking a Closer Look Who Handles Errors?

### Data Files

- Opening and Closing Data Files
- Viewing the data in a file
- Sequential File Organization
- Writing Data to a sequential Disk File
- Creating a sequential data file
- Reading the Data in a sequential file
- Finding the end of a Data file
- Locating a file
- Reading and writing a random file (Get, Put, LOF and Seek).

### Simple Database Support

- Support for Data Access in Visual Basic 6.0
- Using the ADO Data Control
- Binding Controls to Data
- Writing Code for the Data Control
- Accessing Database File(Using MS-Access)
- navigating the database in code (movenext, moveprevious, movefirst & movelast)
- checking for BOF & EOF
- using listboxes & comboboxes as data bound controls
- Updating a database file (adding, deleting records)