

## VBA EXCEL

### Introduction

- What is VBA
- History
- Other Software with VBA

### The Visual Basic Editor

- Project Explorer
- Excel Objects
- *Modules*
- *UserForms*
- *ClassModules*
- Properties Window
- Code Window
- Immediate Window
- Locals Window
- Watches Window

### Record & Debug Macros

- How to write a macro
- How to record a macro (Relative references)
- Different ways to run a macro
- Debugging a macro
- *Macro OR a Procedure?*

### The VBA Language

- Data Types
- Variable Declaration
- Scope and Lifetime of Variables
- Basic Input and Output
- The Active Properties
- Branching & Looping : iif, if, select case, for, while ,do while, do until

**Arrays** : Single , Multi, Dynamic, Variant

### User-Defined Functions & Procedures

- Creating UDFs

- What UDFs Cannot Do
- Calling UDFs
- Creating Procedures
- Calling UDFs
- Parentheses and Argument Lists
- Passing Arrays to UDFs & Procedure

### Overview of Excel Object Model

- Object Browser

### Error-Handling

### Using Ranges

- Activate and Select
- Range Property
- Ranges on Inactive Worksheets
- Range Property of a Range
- Object
- Cells Property
- Cells Used in Range
- Single-Parameter Range Reference
- Offset Property
- Copy
- PasteSpecial
- Cut
- Paste

**Comments** : Add, Change, Delete, Count  
Resize Property

**SpecialCells** Method  
Last Cell. Comments, Blanks etc.

- Current Region Property
- End Property
- Referring to Ranges with End
- Summing a Range
- Columns and Rows Properties Areas
- Union and Intersect Methods Empty Cells
- Transferring Values between

**Arrays and Ranges**

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- Deleting Rows
- Sorting
- Creating a Table
- Sorting a Table
- AutoFilter Object
- Filter Object
- Copying the Visible Rows
- Finding the Visible Rows
- Advanced Filter
- Conditional Formatting
- Ranges to Procedures/Functions

### Using Names

- Naming Ranges
- Using the Name Property of the Range Object
- Special Names
- Storing Values in Names
- Hiding Names
- Working with Named Ranges
- Searching for a Name
- Searching for the Name of a Range

### The Application Object

- Global
- Display Alerts
- Screen Updating
- Evaluate
- InputBox
- StatusBar
- SendKeys
- OnTime
- OnKey
- Calling Worksheet Functions in VBA

### Pagesetup

PrintArea, Margins, Print, PrintPreview, FitTo, PrintTitles etc.

### Workbooks and Worksheets

- The Workbooks Collection

- Getting a Filename from a Path
- Files in the Same Directory
- File System Object
- Working with Object Variables
- Overwriting an Existing Workbook
- Saving Changes
- Password
- Deleing Files, Copying Files etc.
- The Sheets Collection
- Worksheets
- Copy and Move
- Grouping Worksheets
- Protect & Unprotect (with & without password)

### The Window Object

### PivotTables

- Pivot Caches
- PivotTables Collection
- PivotFields
- CalculatedFields
- PivotItems
- Grouping
- Visible Property
- CalculatedItems
- Pivot From External Data

### Event Procedures

- Worksheet Events
- Worksheet Calculate
- Before Double Click
- Workbook Events
- Save Changes

### Auto\_open & Auto\_close

### Text Files and File Dialog

- Opening Text Files
- Writing to Text Files
- Reading Text Files
- Writing to Text Files Using Print
- FileDialog
- FileDialogFilters

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- FileDialogSelectedItems

### UserForms

- Create Userforms
- Calling Userforms through Macros
- Calling Macros through Userforms
- Label
- TextBox
- ListBox
- ComboBox
- OptionButton
- Checkbox
- Frame
- ToggleButton
- TabScript
- Multipage
- ScrollBar
- SpinButton
- RefEdit

### Introduction to API'S

#### Application Events with Class Module

#### Interacting with Other Office Applications

#### Establishing the Connection

#### Late Binding

#### Early Binding

#### Opening a Document in Word

#### Accessing an Active Word Document

#### Creating a New Word Document

### An Overview of ADO

- The Connection Object
- The Recordset Object
- Fetching data from Access
- Connection String for Other databases

### An Overview of MS QUERY

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