VBA EXCEL OBJECTS

What are Excel Objects

When programming using VBA, there are few important objects that a user would be dealing with.

- **Application Objects**

- **WorkBook Objects**

- **WorkSheet Objects**

- **Range Objects**

Application Objects

The Application object consists of the following

- Application-wide settings and options.

- Methods that return top-level objects, such as ActiveCell, ActiveSheet, and so on.

Example

```
'Example 1 :
Set xlapp = CreateObject("Excel.Sheet")
xlapp.Application.Workbooks.Open "C:\test.xls"

'Example 2 :
Application.Windows("test.xls").Activate

'Example 3:
Application.ActiveCell.Font.Bold = True
```

WorkBook Objects

The Workbook object is a member of the Workbooks collection and contains all the Workbook objects currently open in Microsoft Excel.

Example

```
'Ex 1 : To close Workbooks
Workbooks.Close

'Ex 2 : To Add an Empty Work Book
Workbooks.Add

'Ex 3: To Open a Workbook
Workbooks.Open FileName:="Test.xls", ReadOnly:=True

'Ex : 4 - To Activate WorkBooks
Workbooks("Test.xls").Worksheets("Sheet1").Activate
```

Worksheet Objects

The Worksheet object is a member of the Worksheets collection and contains all the Worksheet objects in a workbook.

Example

```
'Ex 1 : To make it Invisible
```

```
Worksheets(1).Visible = False

'Ex 2 : To protect an WorkSheet
Worksheets("Sheet1").Protect password:=strPassword, scenarios:=True
```

Range Objects

Range Objects Represents a cell, a row, a column, a selection of cells containing one or more continuous blocks of cells.

```
'Ex 1 : To Put a value in the cell A5
Worksheets("Sheet1").Range("A5").Value = "5235"

'Ex 2 : To put a value in range of Cells
Worksheets("Sheet1").Range("A1:A4").Value = 5
```