

# VBA (VISUAL BASIC APPLICATION)

**VBA (Visual Basic for Applications)** is the programming language of Excel and other Office programs. 1 Create a Macro: With Excel VBA you can automate tasks in Excel by writing so called macros. A loop in Excel VBA enables you to loop through a range of cells with just a few codes lines.

VBA is a true-Object Oriented programing Language.

**Visual:** - Transparency

**Basic:** - Beginner All Purpose Symbolic Instruction Code

**Application:** - Excel, Word, Power Point, Outlook

**Language:** - Mode of communication

**Program:** - Program is a set of Instructions

**Programing Language:** - Programing language is systematic way to execute the program.

## Types of programing Language

a) Low level Programing Language	Assembling Language Ex. Windows, Dos, Linux, Unix
b) High Level Programing Language	Developing Language Ex. Vb, java, c, c++, Cobol, Pascal, C#, Avap etc.
c) Application based programing Language	VBA-Excel, <b>VBA-Access</b> , VBA-Outlook, VBA-Word, VBA-PowerPoint, <b>VBA SQL</b>

<u>Venue to Write Program</u>	
1) Workbook	Use for All worksheet of workbook
2) Worksheet	use for particular worksheet
3). Module	a) Standard Module
	b) Form Module
	c) Class Module

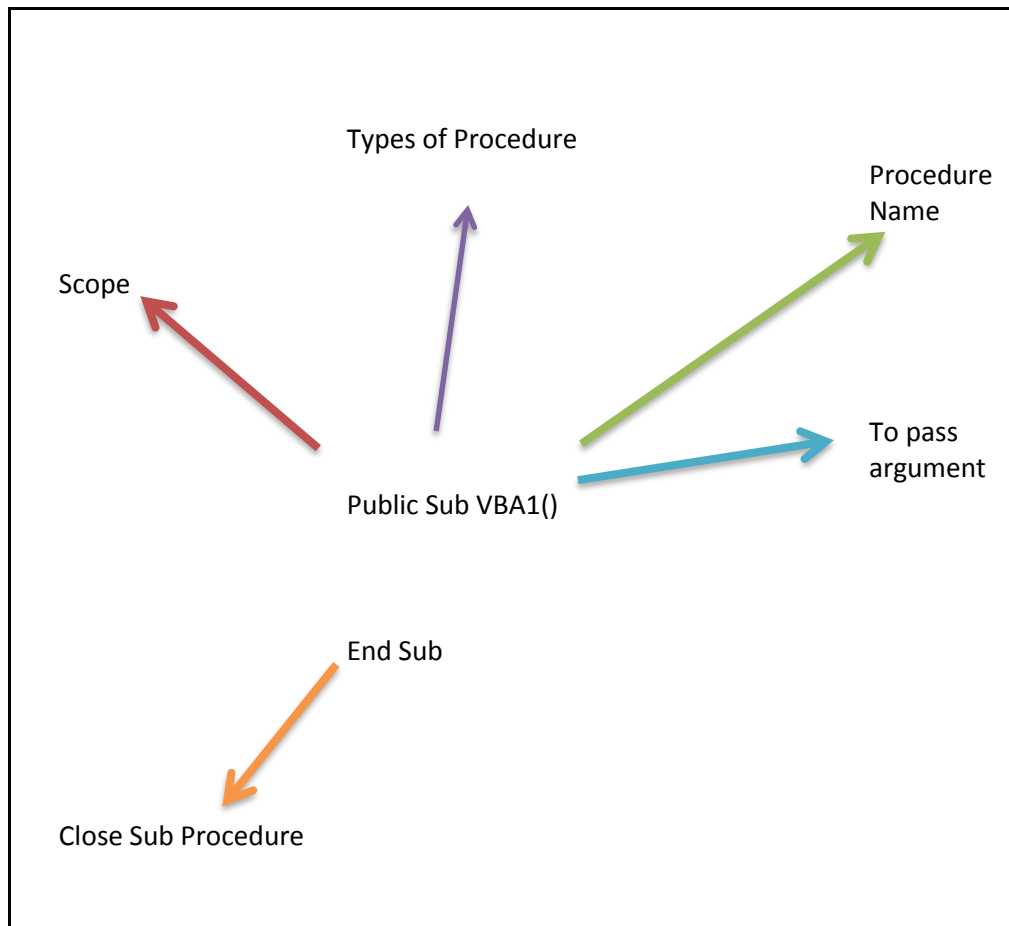
# VBA (VISUAL BASIC APPLICATION)

Class	Class is a set of Object/Collections of Object	Ex. Workbook, Worksheet, Range, Cells, Row, Column, Pivot table
Object	Object is an instance/example of Class	Ex. Book1, Sheet1, Range("A1:A10"), Cells(1,1)
Property	Property is an attribute of object	ex. Color, size, height, width, length
Procedure	Subroutine Procedure	
	Function Procedure	
	Property Procedure	
Event	Event is an action which performed as per our need.	Ex. Open, close, Save, Activate, Change, Click, Double Click etc

## NAMING CONVENTION

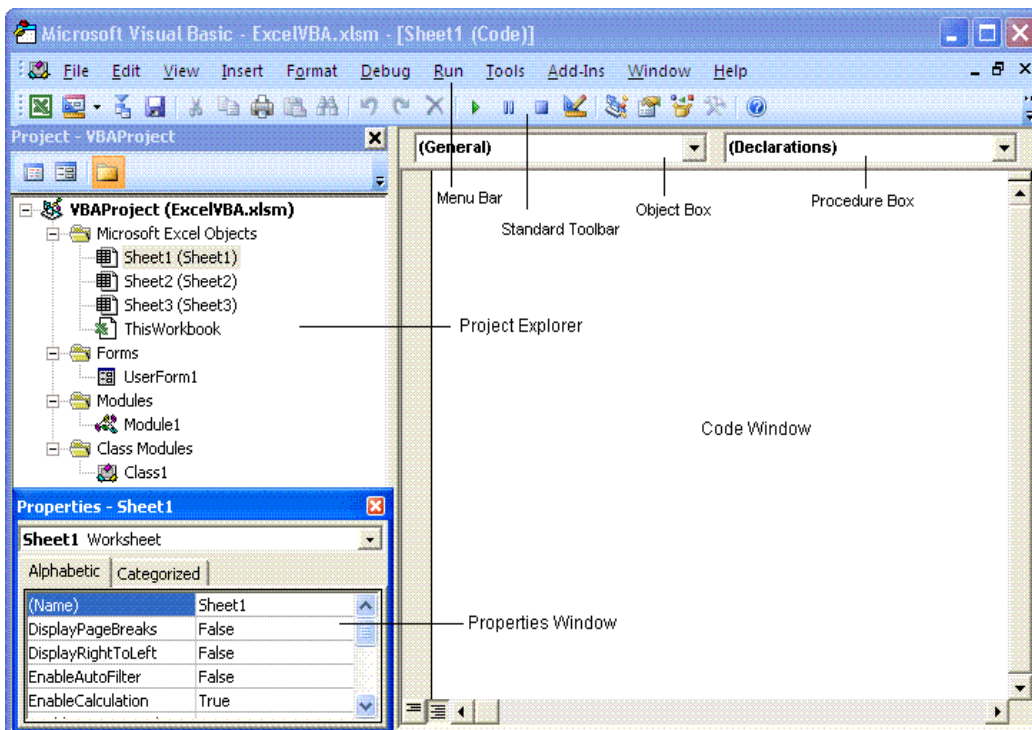
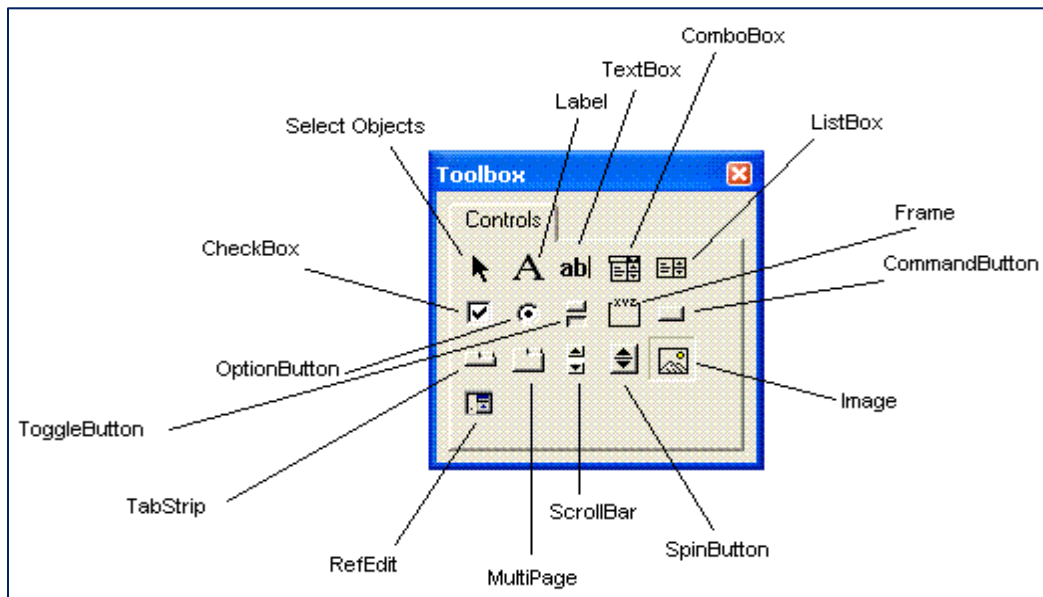
Rule for Naming Convention:
1 Name Should be alpha Numeric or Should Alpha ex. Abc123, abc <b>Invalid: 123abc, 123</b>
2 Avoid Space Between word ex. My Program
3 Avoid Special Characters except _(Underscore)
4 Avoid System defined/Keyword ex. Sub, Name, Public, Private
5 Not more than 255 Characters

# VBA (VISUAL BASIC APPLICATION)

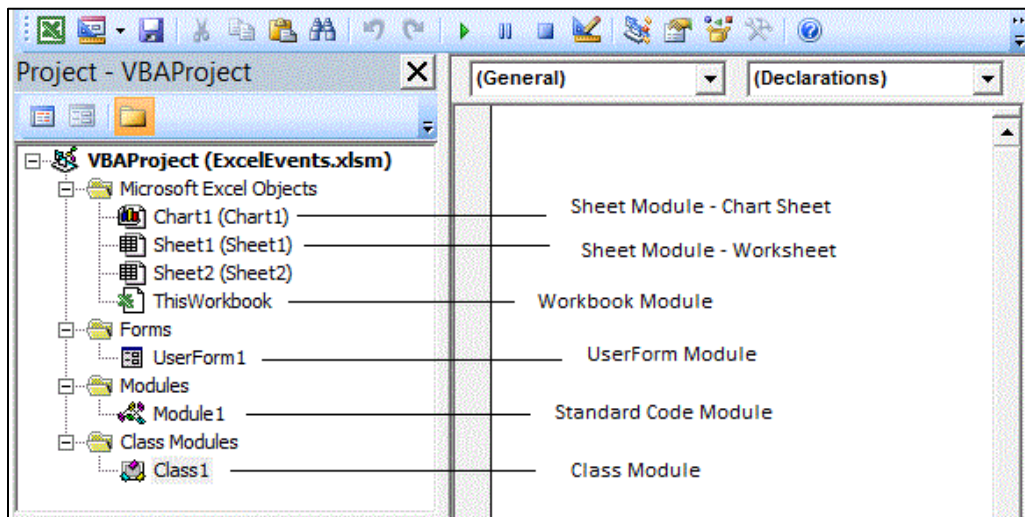


Data Type (VARIABLES)			OBJECT	
Excel	VBA	Type-Declaration Character/Suffixes	Object	Class
Number	Integer	%	rng	Range
Number	Long	&	sh	Worksheet, Sheet
Decimal	Single	!	wkb	workbook, Thisworkbook
Decimal	Double	#	tkb/akb	workbook, Thisworkbook
Text	String	@	pvt	Pivot table
Currency	Currency	\$	chrt	Chart
			Obj	Object

# VBA (VISUAL BASIC APPLICATION)



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Macro	VBA
<b>ABSOLUTE MACRO</b>	<b>RELATIVE MACRO</b>
<pre> Sub Micro1() ' ' ABC Macro ' Range(Selection, Selection.End(xlDown)).Select <b>Selection.Copy</b> Range("D1").Select <b>ActiveSheet.Paste</b> End Sub </pre>	<pre> Sub VBA1() ' ' ABC Macro ' Range(Selection, Selection.End(xlDown)).Select <b>Selection.Copy</b> ActiveCell.Offset(0, 2).Range("A1").Select <b>ActiveSheet.Paste</b> End Sub </pre>

## Interview Question: -

1	Why we Use Option Explicit?
Ans	Option Explicit use to declare variable/Object forcefully.
2	Why we declare Variable/Object?

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Ans	we can create temp data store during execution period.
3	Why we use Data Type.
Ans	1)To optimization of Compiler's Memory. 2)To use of correct execution of Program
4	Types of Macro
Ans	1) Record Macro 2) Run Macro( VBA)
5	Difference between VBA and Macros 1) VBA is conditional but Macro is condition less 2) Macro can convert in VBA but vba can't convert in Record Macro 3) Vba is dynamic but macro is not dynamic
6	Difference between VB, VBA, VBS * VB is stand alone program that runs independently * VBA is part of excel program and can not work alone * VBS is variant of Visual Basic Language used for Internet Application

SL. No.	Topic	Covered
Q-1	Count All Sheets	

Sub Q1()

'MsgBox Sheets.Count

MsgBox "Total No of Sheets:- " & Sheets.Count

End Sub

SL .No.	Topic	Covered
Q-2	Add A Sheet	

Sub Q2()

'Sheets.Add

Sheets.Add after:=Sheets(Sheets.Count)

End Sub

SL. No.	Topic	Covered
Q-3	Delete A Sheet	

Sub Q3()

Sheet5.Delete

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End Sub

**Discription:**

Sheet5 is the name of sheet of worksheet which will be delete.

SL. No.	Topic	Covered
Q-4	Delete Multiple Sheet	

Sub Q4()

```
'Sheets(Array("sheet4", "sheet2", "sheet3")).Delete
```

```
Sheets(Array(2, 3)).Delete
```

End Sub

**Discription:**

This code will delete all sheets which is passed on Array.

SL. No.	Topic	Covered
Q-5	Rename A Sheet	

Sub Q5()

```
Sheet1.Name = "Gunjan"
```

End Sub

SL. No.	Topic	Covered
Q-6	Hide A Sheet	

Sub Q6()

```
'Sheet9.Visible = xlSheetHidden
```

```
Sheet10.Visible = xlSheetVeryHidden
```

End Sub

SL. No.	Topic	Covered
Q-7	Unhide A Sheet	

Sub Q7()

```
Sheet10.Visible = xlSheetVisible
```

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End Sub

SL. No.	Topic	Covered
Q-8	Move Within Workbook	

Sub Q8()

Sheet1.Move after:=Sheets(Sheets.Count)

Sheet1.Move after:=Sheet10

End Sub

SL. No.	Topic	Covered
Q-9	Move Within Another Workbook	

Sub Q9()

Dim wkb As Workbook

Set wkb = Workbooks("Book2")

Sheet1.Copy after:=wkb.Sheets(Sheets.Count)

End Sub

SL. No.	Topic	Covered
Q-10	Color Sheet Tab	

Sub Q10()

Sheet1.Tab.ColorIndex = 22

End Sub

**Discerption:**

We can put color Code between -> 0-255.

SL. No.	Topic	Covered
Q-11	Copy A Sheet	

Sub Q11()

Sheet1.Copy after:=Sheets(Sheets.Count)



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End Sub

SL. No.	Topic	Covered
Q-12	Protect A Sheet	

Sub Q12()

    ActiveSheet.Protect "Abc"

End Sub

SL. No.	Topic	Covered
Q-13	Unprotect A Sheet	

Sub Q13()

    ActiveSheet.Unprotect "Abc"

End Sub

SL. No.	Topic	Covered
Q-14	Protect A Range	

Sub Q14()

    Dim sh As Worksheet

    Dim rng As Range

    Dim i As Integer

    Set sh = ThisWorkbook.Sheets(1)

        i = sh.Cells(Rows.Count, "C").End(xlUp).Row

        Set rng = sh.Range("A1:C" & i)

    Cells.Select

    sh.Unprotect "abc"

    Selection.Locked = False

    rng.Locked = True

    sh.Protect "abc"

End Sub

SL. No.	Topic	Covered
Q-15	Print Particulars Sheet	

Sub Q15()

    Dim akb As Workbook

# VBA (VISUAL BASIC APPLICATION)

```
Set akb = ActiveWorkbook
akb.PrintOut
'Application.Dialogs(xlDialogPrintPreview).Show
Application.Dialogs(xlDialogPrinterSetup).Show
End Sub
```

SL. No.	Topic	Covered
Q-16	Select Current Sheet	

```
Sub Q16()
    Cells.Select
End Sub
```

SL. No.	Topic	Covered
Q-17	Open A Workbook	

```
Sub Q17()
    Dim str As String
    str = VBA.InputBox("Enter URL")
    Workbooks.Open Filename:=str
End Sub
```

SL. No.	Topic	Covered
Q-18	New Workbook	

```
Sub Q18()
    Workbooks.Add
End Sub
```

SL. No.	Topic	Covered
Q-19	Save As A Workbook	

```
Sub Q19()
```

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```
ActiveWorkbook.SaveAs Filename:="C:\Users\Nilesh\Desktop\VBA-17th  
Oct'19\demo.xlsm"
```

End Sub

SL. No.	Topic	Covered
Q-20	Save Workbook	

Sub Q20()

```
ActiveWorkbook.Save
```

End Sub

SL. No.	Topic	Covered
Q-21	Protect A Workbook	

Sub Q21()

```
ActiveWorkbook.Password = demo
```

```
ActiveWorkbook.Save
```

End Sub

SL. No.	Topic	Covered
Q-22	Close Workbook	

Sub Q22()

```
ActiveWorkbook.Close
```

End Sub

SL. No.	Topic	Covered
Q-23	Close Application	

Sub Q23()

```
Application.Quit
```

End Sub

SL. No.	Topic	Covered
Q-24	Delete File	

Sub Q24()

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```
Kill "C:\Users\Nilesh\Desktop\Dashboard\*.xls"
```

```
End Sub
```

SL. No.	Topic	Covered
Q-25	Delete All File Of A Folder	

```
Sub Q25()
```

```
Kill "C:\Users\Nilesh\Desktop\Dashboard\*."
```

```
End Sub
```

SL. No.	Topic	Covered
Q-26	Show Workbook Name	

```
Sub Q26()
```

```
Range("F3").Value = (ActiveWorkbook.Name)
```

```
End Sub
```

## 3<sup>rd</sup> Class

SL. No	Topic	Covered
Q-1	Select A Cell On The Active Worksheet	Red

```
Sub Q1()
```

```
ActiveCell.Interior.Color = vbRed
```

```
End Sub
```

SL. No	Topic	Covered
Q-2	Select A Cell On The Another Sheet In The Active Workbook	Green

```
Sub Q2()
```

```
Sheet2.Range("b7").Interior.Color = vbGreen
```

```
End Sub
```

SL. No	Topic	Covered
Q-3	Select A Cell On The Active Worksheet In Different Workbook	

```
Sub Q3()
```

# VBA (VISUAL BASIC APPLICATION)

```
Dim wkb As Workbook
Set wkb = Workbooks("Book2")
wkb.Activate
Range("c5").Interior.Color = vbYellow
```

End Sub

SL. No	Topic	Covered
Q-4	Select A Range On The Active Worksheet	

Sub Q4()

```
Range("b4:D7").Interior.Color = vbBlue
```

End Sub

SL. No	Topic	Covered
Q-5	Select A Range On The Another Sheet In The Active Workbook	

Sub Q5()

```
Sheet2.Range("b7:O9").Interior.Color = vbGreen
```

End Sub

SL. No	Topic	Covered
Q-6	Select A Range On The Active Worksheet In Different Workbook	

Sub Q6()

```
Dim wkb As Workbook
Set wkb = Workbooks("Book2")
wkb.Activate
Range("c5:u8").Interior.Color = vbYellow
```

End Sub

SL. No	Topic	Covered
Q-7	Create Naming Range On The Active Worksheet	

Sub Q7()

```
Range("G5:G10").Name = "Gunjan"
```

End Sub

SL No	Topic	Covered
Q-8	Create Naming Range On The Another Sheet In The Active Workbook	

Sub Q8()

# VBA (VISUAL BASIC APPLICATION)

```
Sheet1.Next.Select
```

```
Range("G5:G10").Name = "Gunjan"
```

```
End Sub
```

SL. No	Topic	Covered
Q-9	Create Naming Range On The Active Worksheet In Different Workbook	

```
Sub Q9()
```

```
Dim wkb As Workbook
```

```
Set wkb = Workbooks("Book2")
```

```
    wkb.Activate
```

```
    Range("G5:G10").Name = "Gunjan"
```

```
End Sub
```

SL. No	Topic	Covered
Q-10	Colored A Cell On The Active Worksheet But After Executing The Program Color Should Be Change.	

```
Sub Q10()
```

```
    Range("F10:F15").Interior.ColorIndex = Application.WorksheetFunction.RandBetween(1, 52)
```

```
End Sub
```

SL. No	Topic	Covered
Q-11	Colored A Cell On The Another Sheet In The Same Workbook But After Executing The Program Color Should Be Change.	

```
Sub Q11()
```

```
    Sheet1.Next.Select
```

```
    Range("F10:F15").Interior.ColorIndex = Application.WorksheetFunction.RandBetween(1, 52)
```

```
End Sub
```

SL. No	Topic	Covered
Q-12	Colored A Cell On The Active Sheet In Different Workbook But After Executing The Program Color Should Be Change	

# VBA (VISUAL BASIC APPLICATION)

```
Sub Q12()
Dim wkb As Workbook
Set wkb = Workbooks("Book2")
    wkb.Activate
    Range("F10:F15").Interior.ColorIndex = Application.WorksheetFunction.RandBetween(1, 52)
End Sub
```

SL. No	Topic	Covered
Q-13	Colored Cell Beside Of Active Cell (Eg. Left/Right/Up/Down) On The Active Worksheet	

```
Sub Q13()
    ActiveCell.Offset(1, 0).Interior.Color = vbRed
    ActiveCell.Offset(-1, 0).Interior.Color = vbGreen
    ActiveCell.Offset(0, 1).Interior.Color = vbBlue
    ActiveCell.Offset(0, -1).Interior.Color = vbYellow
End Sub
```

SL. No	Topic	Covered
Q-13	Colored Cell Beside Of Active Cell (Eg. Left/Right/Up/Down) On The Active Worksheet	
Q-14	Colored Cell Beside Of Active Cell (Eg. Left/Right/Up/Down) On The Another Worksheet In The Same Workbook	
Q-15	Colored Cell Beside Of Active Cell (Eg. Left/Right/Up/Down) On The Active Worksheet In The Defferent Workbook	

Q-13 & Q-14 Take help of previous help....

SL. No	Topic	Covered
Q-16	Colored Next Range of The Created Naming Range on The Active Worksheet	Blue
Q-17	Colored Next Range of The Created Naming Range on The Another Worksheet in The Active Workbook	
Q-18	Colored Next Range of The Created Naming Range on The Active Worksheet in The Different Workbook	

```
Sub Q16()
    Range("Gunjan").Offset(0, 1).Interior.Color = vbBlue
End Sub
```

SL. No	Topic	Covered
Q-19	Select The Last Cell of A Column Of Used Data	

```
Sub Q19()
```

# VBA (VISUAL BASIC APPLICATION)

```
Dim i As Integer
i = Sheet1.Cells(1, 1).End(xlDown).Row
Sheet1.Range("B" & i).Select
End Sub
```

SL. No	Topic	Covered
Q-20	Select The Last Blank Cell Of A Column Of Used Data	

```
Sub Q20()
Dim i As Integer
i = Sheet1.Cells(1, 1).End(xlDown).Row + 1
Sheet1.Range("A" & i).Select
End Sub
```

SL. No	Topic	Covered
Q-21	Last Used Row No Show In Msg Box Of A Column Of Used Data	

```
Sub Q21()
Dim i As Integer
i = Sheet1.Cells(1, 1).End(xlDown).Row
Sheet1.Range("B" & i).Select
MsgBox "Last Used Rows:- " & i
End Sub
```

SL. No	Topic	Covered
Q-22	Last Blank Row No Show in Msg Box Of A Column Of Used Data	

```
Sub Q22()
Dim i As Integer
i = Sheet1.Cells(1, 1).End(xlDown).Row + 1
Sheet1.Range("B" & i).Select
MsgBox "Last Used Rows:- " & i
End Sub
```

SL. No	Topic	Covered
Q-23	Select all data in current region	

Sub Q23()



# VBA (VISUAL BASIC APPLICATION)

```
Range("A1").CurrentRegion.Select  
End Sub
```

SL. No	Topic	Covered
Q-24	Select all data in Used Range	

```
Sub Q24()  
    Sheet1.UsedRange.Select  
End Sub
```

## 4<sup>th</sup> Class

1. Fill Data as per below give Table.

# VBA (VISUAL BASIC APPLICATION)

First Name	Last Name	Salary
Gunjan	Singh	234234
Mohan	Raj	3432
Mona	Sharma	32434
		34324
Raju	Kumar	234234
	Sharma	3434
Sona		34342

```
Private Sub CommandButton1_Click()
```

```
Dim Fname, Lname As String
```

```
Dim Salary As Long
```

```
Dim i, J, K, L As Integer
```

```
    Fname = VBA.InputBox("Enter Your First Name")
```

```
    Lname = VBA.InputBox("Enter Your Last Name")
```

```
    Salary = VBA.InputBox("Enter Your Salary")
```

```
    i = Sheet1.Cells(Rows.Count, "A").End(xlUp).Row + 1
```

```
    J = Sheet1.Cells(Rows.Count, "B").End(xlUp).Row + 1
```

```
    K = Sheet1.Cells(Rows.Count, "C").End(xlUp).Row + 1
```

```
    L = Application.WorksheetFunction.Max(i, J, K)
```

```
    Sheet1.Cells(L, "A").Value = Fname
```

```
    Sheet1.Cells(L, "B").Value = Lname
```

```
    Sheet1.Cells(L, "C").Value = Salary
```

```
End Sub
```

**Fill Data as per below give Table.**


# VBA (VISUAL BASIC APPLICATION)

Gunjan	Singh	234234
First Name	Last Name	Salary

```
Private Sub CommandButton1_Click()
```

```
Dim FName, LName As String
```

```
Dim Salary As Long
```

```
Dim i, J, K, L As Integer
```

```
FName = VBA.InputBox("Enter Your First Name")
```

```
LName = VBA.InputBox("Enter Your Last Name")
```

```
Salary = VBA.InputBox("Enter Your Salary")
```

```
i = Sheet2.Cells(1, 1).End(xlDown).Row - 1
```

```
J = Sheet2.Cells(1, 2).End(xlDown).Row - 1
```

```
K = Sheet2.Cells(1, 3).End(xlDown).Row - 1
```

```
Sheet2.Cells(i, "A").Value = FName
```

```
Sheet2.Cells(J, "B").Value = LName
```

```
Sheet2.Cells(K, "C").Value = Salary
```

```
End Sub
```

## **2. Fill Data as per below give Table.**

Full Name	Last Name	Email	Mob			
-----------	-----------	-------	-----	--	--	--

```
Private Sub CommandButton1_Click()
```

```
Dim Header As String
```

```
Dim i As Integer
```

```
Header = VBA.InputBox("Enter Header")
```

```
i = Sheet3.Cells(1, Columns.Count).End(xlToLeft).Column + 1
```

```
Sheet3.Cells(1, i).Value = Header
```

```
End Sub
```

## **4. Fill Data as per below give Table.**

		Raju	Ranu	Ramu	Mohani
--	--	------	------	------	--------

# VBA (VISUAL BASIC APPLICATION)

```
Private Sub CommandButton1_Click()  
Dim Header As String  
Dim i As Integer  
    Header = VBA.InputBox("Enter Header")  
    i = Sheet4.Cells(1, 1).End(xlToRight).Column - 1  
    Sheet4.Cells(1, i).Value = Header  
End Sub
```

## WorkSheet Function

### 1. Count

```
Private Sub CommandButton1_Click()  
Sheet1.Range("H6").Value = Application.WorksheetFunction.Count(Sheet1.Range("C2:C21"))  
End Sub
```

### 2. CountA

```
Private Sub CommandButton2_Click()  
    Sheet1.Range("H7").Value = Application.WorksheetFunction.CountA(Sheet1.Range("A2:C21"))  
End Sub
```

### 3. Countif

```
Private Sub CommandButton3_Click()  
    Dim rng As Range  
    Set rng = Sheet1.Range("A2:A21")  
    Sheet1.Range("H8").Value = Application.WorksheetFunction.CountIf(rng, [e2])  
End Sub
```

### 4. Counifs

```
Private Sub CommandButton4_Click()  
    Dim rng, rng1 As Range
```

# VBA (VISUAL BASIC APPLICATION)

```
Set rng = Sheet1.Range("A2:A21")
Set rng1 = Sheet1.Range("B2:B21")
Sheet1.Range("H9").Value = Application.WorksheetFunction.CountIfs(rng, [e2], rng1, [f2])
End Sub
```

## **5. Sum**

```
Private Sub CommandButton5_Click()
    Sheet1.Range("H10").Value = Application.WorksheetFunction.Sum(Sheet1.Range("C2:C21"))
End Sub
```

## **6. Sumif**

```
Private Sub CommandButton6_Click()
    Dim rng, rng1 As Range
    Set rng = Sheet1.Range("A2:A21")
    Set rng1 = Sheet1.Range("C2:C21")
    Sheet1.Range("H11").Value = Application.WorksheetFunction.SumIf(rng, [e2], rng1)
End Sub
```

## **7. Sumifs**

```
Private Sub CommandButton7_Click()
    Dim rng, rng1, rng2 As Range
    Set rng = Sheet1.Range("A2:A21")
    Set rng1 = Sheet1.Range("C2:C21")
    Set rng2 = Sheet1.Range("B2:B21")
    Sheet1.Range("H12").Value = Application.WorksheetFunction.SumIfs(rng1, rng, [e2], rng2, [f2])
End Sub
```

## **8. Min**

```
Private Sub CommandButton8_Click()
    Sheet1.Range("H16").Value = Application.WorksheetFunction.Min(Sheet1.Range("C2:C21"))
End Sub
```

## **9. Small**

```
Private Sub CommandButton9_Click()
    Dim rng1 As Range
```

# VBA (VISUAL BASIC APPLICATION)

```
Set rng1 = Sheet1.Range("C2:C21")
Sheet1.Range("H18").Value = Application.WorksheetFunction.Small(rng1, 2)
End Sub
```

## 10. Text

```
Private Sub CommandButton10_Click()
Sheet1.Range("H20").Value = Application.WorksheetFunction.Text(Sheet1.Range("G20"), "MMM")
End Sub
```

## Sorting & Filter

SL. No.	Topic
1	Basic Sorting

```
Private Sub CommandButton1_Click()
Dim rng As Range
Dim sh As Worksheet
Set sh = ThisWorkbook.Sheets("Basic Sorting")
Set rng = sh.Range("A1:C" & sh.Cells(Rows.Count, "C").End(xlUp).Row)
rng.Sort Key1:=sh.Range("A1"), order1:=xlDescending, Header:=xlYes
End Sub
```

SL. No.	Topic
2	Advance Sorting

```
Private Sub CommandButton2_Click()
Dim rng As Range
Dim sh As Worksheet
Set sh = ThisWorkbook.Sheets("Advance Sorting")
Set rng = sh.Range("A1:C" & sh.Cells(Rows.Count, "C").End(xlUp).Row)
rng.Sort Key1:=sh.Range("A1"), order1:=xlDescending, key2:=sh.Range("B1"),
order2:=xlAscending, Header:=xlYes
End Sub
```

SL. No.	Topic
3	Custom Sorting

```
Private Sub CommandButton2_Click()
```

# VBA (VISUAL BASIC APPLICATION)

```
Dim sh As Worksheet
Dim rng As Range
Set sh = ThisWorkbook.Sheets("Custom Sorting")
Set rng = sh.Range("A2")
Application.AddCustomList listarray:=sh.Range("E2:E6")
rng.Sort Key1:=sh.Range("a2"), order1:=xlAscending,
ordercustom:=Application.CustomListCount + 1, Orientation:=xlSortColumns
End Sub
```

SL. No.	Topic
4	Auto Filter

```
Private Sub CommandButton2_Click()
    Range("A1:C1").AutoFilter
End Sub
```

SL. No.	Topic
5	Advance Filtering

**Note-> Option Explicit => General Declaration**

```
Private Sub CommandButton2_Click()
    Dim sh As Worksheet
    Dim rng As Range
    Set sh = ThisWorkbook.Sheets("AdvanceFilter2")
    Set rng = sh.Range("A1:C" & sh.Cells(Rows.Count, "C").End(xlUp).Row)
    rng.AdvancedFilter Action:=xlFilterCopy, criteriarange:=sh.Range("H1:J3"),
    copytorange:=sh.Range("M1"), unique:=True
End Sub
```

SL. No.	Topic
6	Remove Duplicates

```
Private Sub CommandButton2_Click()
```

# VBA (VISUAL BASIC APPLICATION)

```
Dim sh As Worksheet
Dim rng As Range
Set sh = ThisWorkbook.Sheets("RemoveDuplicates")
Set rng = sh.Range("A1:A" & sh.Cells(Rows.Count, "A").End(xlUp).Row)
rng.AdvancedFilter Action:=xlFilterCopy, copytorange:=sh.Range("N1"), unique:=True
End Sub
```

SL. No.	Topic
7	Conditional Formatting

```
Private Sub CommandButton2_Click()
    Dim sh As Worksheet
    Dim rng As Range
    Set sh = ThisWorkbook.Sheets("ConditionalFormatting")
    Set rng = sh.Range("a1:A" & sh.Cells(Rows.Count, "A").End(xlUp).Row)
    Dim UV As UniqueValues
    Set UV = rng.FormatConditions.AddUniqueValues
    UV.DupeUnique = xlUnique
    UV.Interior.Color = vbGreen
    UV.DupeUnique = xlDuplicate
    UV.Interior.Color = vbRed
End Sub
```

SL. No.	Topic
8	Series (Fill)

```
Private Sub CommandButton2_Click()
    Dim sh As Worksheet
    Set sh = ThisWorkbook.Sheets("Series")
    sh.Range("C1") = 0
    sh.Range("C1").Select
    Selection.DataSeries rowcol:=xlColumns, Type:=xlLinear, step:=1, stop:=200
End Sub
```

SL. No.	Topic
9	Text to Columns (Fixed with/Delimited)



# VBA (VISUAL BASIC APPLICATION)

```
Private Sub CommandButton2_Click()  
    Dim sh As Worksheet  
    Dim rng As Range  
    Set sh = ThisWorkbook.Sheets("TextotColumn")  
    Set rng = sh.Range("a2:A" & sh.Cells(Rows.Count, "A").End(xlUp).Row)  
    rng.TextToColumns Destination:=sh.Range("C2"), DataType:=xlDelimited, comma:=True,  
    other:=True, otherchar:="&"  
End Sub
```

SL. No.	Topic
10	Validation

```
Private Sub CommandButton2_Click()  
    Range("D10").Select  
    Selection.Validation.Delete  
    Selection.Validation.Add Type:=xlValidateList, Formula1:="=A1:A5"  
End Sub
```

SL. No.	Topic
11	Insert Comment

```
Private Sub CommandButton2_Click()  
    ActiveCell.AddComment "Created by VBA Team"  
End Sub
```

## Event

```
Private Sub Workbook_Activate()
```

# VBA (VISUAL BASIC APPLICATION)

```
'Application.DisplayFullScreen = False
'Application.DisplayFormulaBar = True
ActiveWindow.DisplayGridlines = True
ActiveWindow.DisplayHeadings = True
ActiveWindow.DisplayHorizontalScrollBar = True
ActiveWindow.DisplayVerticalScrollBar = True
ActiveWindow.DisplayWorkbookTabs = True
'ActiveWindow.FreezePanels =
'ActiveWindow.PrintOut = True
```

**End Sub**

### **3. Double click working.**

Private Sub Workbook\_SheetBeforeDoubleClick(ByVal Sh As Object, ByVal Target As Range, Cancel As Boolean)

```
    If Target.Value <> "" Then
        Target.Interior.Color = vbRed
    Else
        Exit Sub
    End If
```

End Sub

### **4. Right Click Disable**

Private Sub Workbook\_SheetBeforeRightClick(ByVal Sh As Object, ByVal Target As Range, Cancel As Boolean)

```
    If Target.Value <> "" Then
        Target.Interior.Color = vbRed
    Else
        Exit Sub
    End If
```

End Sub

### **5. Block Print out.**

```
Private Sub Workbook_BeforePrint(Cancel As Boolean)
    Cancel = True
    MsgBox ("Print Not Allowed")
```

# VBA (VISUAL BASIC APPLICATION)

End Sub

## **6. Block Save as.**

```
Private Sub Workbook_BeforeSave(ByVal SaveAsUI As Boolean, Cancel As Boolean)
    Cancel = False
    MsgBox ("Save Not Allowed")
End Sub
```

## **Multiple Sheet's Data Copy Paste in a Sheet**

### **At first Create Module**

```
Private Sub CommandButton1_Click()
    Call QueryCall
    Selection.Copy sh.Cells(i, 1)
    Selection.Interior.Color = vbBlue
End Sub
```

---

#### **1. Copy data & Pest**

```
Private Sub CommandButton1_Click()
    Call QueryCall
    Selection.Copy sh.Cells(i, 1)
End Sub
```

#### **2. Copy data & Pest after color data which has copied**

```
Private Sub CommandButton1_Click()
    Call QueryCall
    Selection.Copy sh.Cells(i, 1)
    Selection.Interior.Color = vbBlue
End Sub
```

#### **3. Cut Date & Pest**

```
Private Sub CommandButton1_Click()
    Call QueryCall
    Selection.Copy sh.Cells(i, 1)
```

# VBA (VISUAL BASIC APPLICATION)

```
Selection.EntireRow.Delete  
End Sub
```

## Loop

For Next	Limited
For Each	Object

# VBA (VISUAL BASIC APPLICATION)

Do While	Unlimited
Do Until	Unlimited
Do Went	Unlimited

## **1. For Next**

a). Eg

```
Sub Loop1()  
    Dim R, C As Integer  
    For R = 1 To 5  
        For C = 1 To 5  
            Sheet2.Cells(R, C).Value = "*"   
        Next  
    Next  
End Sub
```

b). Eg

```
Sub Loop2()  
    Dim R, C As Integer  
    For R = 1 To 5  
        For C = 1 To R  
            Sheet3.Cells(R, C).Value = "*"   
        Next  
    Next  
End Sub
```

End Sub

c). Eg

```
Sub Loop3()  
    Dim R, C As Integer  
    For R = 1 To 5  
        For C = 6 - R To 5  
            Sheet4.Cells(R, C).Value = "*"   
        Next  
    Next
```

```
End Sub
```

d).Eg

```
Sub Loop4()  
    Dim R, C As Integer  
    For R = 1 To 5
```

# VBA (VISUAL BASIC APPLICATION)

```
For C = 1 To 6 - R
Sheet5.Cells(R, C).Value = "*"
Next
Next
End Sub
```

e). Eg

```
Sub Loop5()
Dim R, C As Integer
For R = 1 To 5
For C = R To 5
Sheet6.Cells(R, C).Value = "*"
Next
Next
End Sub
```

f). Eg

```
Sub Loop6()
Dim R, j, C As Integer
j = 4
For R = 0 To j
For C = 0 To j
ActiveCell.Offset(R, -C).Value = "*"
ActiveCell.Offset(R, C).Value = "*"
Next
j = j - 1
Next
End Sub
```

Sr. No	Agenda
1	Value Showing in Msg Box by Loop

```
Sub Loop1()
Dim i As Integer
For i = 1 To 5
```

# VBA (VISUAL BASIC APPLICATION)

```
MsgBox i
Next
End Sub
```

Sr. No	Agenda
2	WorkSheet Value Show in Msg box

```
Sub Loop2()
    Dim i As Integer
    For i = 1 To 10
        MsgBox Sheet1.Cells(i, 2).Value
    Next
End Sub
```

Sr. No	Agenda
3	Sheet Name Show in Msg box

```
Sub Loop3()
    Dim i As Integer
    For i = 1 To Sheets.Count
        MsgBox Sheets(i).Name
    Next
End Sub
```

Sr. No	Agenda
4	Work Sheet ReName By Ref

```
Sub Loop4()
    Dim i As Integer
    Dim sh As Worksheet
    Set sh = ThisWorkbook.Sheets(1)
    For i = 1 To sh.Cells(Rows.Count, "C").End(xlUp).Row
        Sheets(i).Name = sh.Cells(i, 3).Value
    Next
End Sub
```

Sr. No	Agenda
5	WorkSheet Name Paste in Excel Sheet

```
Sub Loop5()
    Dim i As Integer
    Dim sh As Worksheet
```

# VBA (VISUAL BASIC APPLICATION)

```
Set sh = ThisWorkbook.Sheets(1)
For i = 1 To Sheets.Count
sh.Cells(i, 3).Value = Sheets(i).Name
Next
End Sub
```

Sr. No	Agenda
6	Sheet add and rename by ref

```
Sub Loop6()
Dim i As Integer
Dim sh As Worksheet
Set sh = ThisWorkbook.Sheets(1)
For i = 1 To sh.Cells(Rows.Count, "D").End(xlUp).Row

Sheets.Add after:=Sheets(Sheets.Count)
Sheets(i).Name = sh.Cells(i, "D").Value
Next
End Sub
```

Sr. No	Agenda
7	WorkSheet Grouping

```
Sub Loop7()
Dim i As Integer
For i = 1 To ThisWorkbook.Sheets.Count
Worksheets.Select (False)
Next
End Sub
```

Sr. No	Agenda
8	All WorkSheet Select

```
Sub Loop8()
Dim i As Integer
For i = 1 To Sheets.Count
```



# VBA (VISUAL BASIC APPLICATION)

```
    Sheets(i).Activate
    Cells.Select
    Next
End Sub
```

Sr. No	Agenda
9	Copy Red Color Value only

```
Sub Loop9()
    Dim i, j As Integer
    j = 2
    For i = 1 To Range("A100").End(xlUp).Row
        If Cells(i, "A").Font.Color = vbRed Then
            Cells(j, "B").Value = Cells(i, "A").Value
            j = j + 1
        End If
    Next
End Sub
```

## For Each-1

Sr. No	Agenda	Status
1	Remove Naming Range from active sheet	

```
Private Sub CommandButton1_Click()
    Dim N As name
    Dim str As String
    str = "Loop1"
    For Each N In ActiveWorkbook.Names
        If N.RefersToRange.Worksheet.name = str Then
            N.Delete
        End If
    Next
End Sub
```

Sr. No	Agenda	Status
2	Remove All Naming range from Active workbook	

```
Private Sub CommandButton1_Click()
    Dim N As name
    For Each N In ActiveWorkbook.Names
        ActiveWorkbook.Names(N.name).Delete
    Next
End Sub
```

# VBA (VISUAL BASIC APPLICATION)

```
Next  
End Sub
```

Sr. No	Agenda	Status
3	Remove Enter	

```
Sub Re_Enter()  
Dim rng As Range  
For Each rng In Selection  
rng.Value = VBA.Trim(rng)  
rng.Value = Application.WorksheetFunction.Clean(rng)  
Next  
End Sub
```

**Or**

```
Private Sub CommandButton1_Click()  
Dim rng As Range  
For Each rng In Selection  
rng.Value = Application.WorksheetFunction.Clean(rng)  
rng.Value = Application.WorksheetFunction.Trim(rng)  
Next  
End Sub
```

Sr. No	Agenda	Status
4	Remove Formulas / Value Pest	

```
Private Sub CommandButton1_Click()  
Dim sh As Worksheet  
On Error Resume Next  
For Each sh In ActiveWorkbook.Sheets
```

# VBA (VISUAL BASIC APPLICATION)

```
sh.Cells.SpecialCells (xlCellTypeFormulas)
```

```
sh.Cells.SpecialCells(xlCellTypeFormulas).Value = sh.Cells.SpecialCells(xlCellTypeFormulas).Value
```

```
Next
```

```
End Sub
```

Sr. No	Agenda	Status
5	Disable right-click	

```
Sub D_RightC()
```

```
Dim CB As CommandBar
```

```
For Each CB In CommandBars
```

```
If CB.Type = msoBarTypePopup Then CB.Enabled = True
```

```
Next
```

```
End Sub
```

Sr. No	Agenda	Status
6	Converter Upper/Lower/Proper Case	

```
Sub case_Conv()
```

```
Dim rng As Range
```

```
For Each rng In Selection
```

```
'rng.Value = VBA.StrConv(rng, vbUpperCase)
```

```
'rng.Value = VBA.StrConv(rng, vbLowerCase)
```

```
rng.Value = VBA.StrConv(rng, vbProperCase)
```

```
Next
```

```
End Sub
```

Sr. No	Agenda	Status
7	Reduce all Comment Box Size	

```
Sub ResizeComment()
```

```
Dim rng As Range
```

```
For Each rng In Cells.SpecialCells(xlCellTypeComments)
```

```
rng.Comment.Visible = True
```

```
rng.Comment.Shape.TextFrame.AutoSize = True
```

# VBA (VISUAL BASIC APPLICATION)

Next  
End Sub

Sr. No	Agenda	Status
9	Colored Specific Name in a range	

```
Sub CloseAllExcelSheet()  
    Dim xWB As Workbook  
    Application.ScreenUpdating = False  
    For Each xWB In Application.Workbooks  
        If Not (xWB Is Application.ActiveWorkbook) Then  
            xWB.Close  
        End If  
    Next  
    Application.ScreenUpdating = True  
End Sub
```

Sr. No	Agenda	Status
10	Remove entire row of 0 value	

```
Sub RemoveZeroValue()  
    Dim rng As Range  
    Dim cel As Range  
    Set rng = ActiveSheet.Range("A3:A1000")  
    For Each cel In rng  
        If cel.Value = 0 Then  
            cel.EntireRow.Delete  
        End If  
    Next  
End Sub
```

Sr. No	Agenda	Status
11	Range wise sheet Add & ReName	

```
Sub rangewise_sheetname()  
    Dim rng As Range  
    Dim cell As Range  
    Set rng = ActiveSheet.Range("A2:a4")  
    For Each cell In rng
```

# VBA (VISUAL BASIC APPLICATION)

```
Sheets.Add.name = cell.Value
Next
End Sub
```

Sr. No	Agenda	Status
12	Remove Comments in Active Sheet	

```
Private Sub CommandButton1_Click()
Dim comm As Comment
For Each comm In ActiveSheet.Comments
comm.Delete
Next
End Sub
```

OR

```
Sub RemoveComment()
Dim cmt As Comment
For Each cmt In ActiveSheet.Comments
cmt.Delete
Next cmt
End Sub
```

## For Next Loop

a)

Mix Data	Output
31m312313m13m3m1j123jufhg8130685560fad78af6a	8130685560
dfag7s856jdjhw9000987432rqr7qr87ds8f7adf232323	9000987432
df97f6a86ad5g899g899g9df9g9643206787adf76afd76	9643206787
opi432o8826861950f8adf8adf76dfuadyuadfuirwenhj	8826861950
qwerjqhrterqjrhqer8897898778rq3434i2u3424	8897898778

# VBA (VISUAL BASIC APPLICATION)

```
Sub GetNum()  
    Dim i As Integer, j  
    Dim v As Variant  
    For i = 2 To Cells(Rows.Count, "A").End(xlUp).Row  
        For j = 1 To Len(Range("A" & i))  
            If IsNumeric(Mid(Range("A" & i), j, 10)) = True Then  
                Range("B" & i) = Mid(Range("A" & i), j, 10)  
            GoTo v  
        End If  
    Next  
    v:  
Next
```

End Sub

**b)**

<b>11</b>	<b>Worksheet Add and rename as per Date</b>
<b>12</b>	<b>Multiple Sheet Delete</b>

Year	Month
2019	Nov

```
Sub AddSheet()  
    Dim i As Long  
    Dim Sdate, Edate As Date  
    Sdate = VBA.DateSerial(Sheet1.Range("A2"), Month(WorksheetFunction.EoMonth(1 &  
    Sheet1.Range("B2"), 0)), 1)  
    Edate = WorksheetFunction.EoMonth(Sdate, 0)  
    For i = Sdate To Edate  
        If VBA.Weekday(i, 2) < 6 Then  
            Sheets.Add after:=Sheets(Sheets.Count)  
            Sheets(Sheets.Count).Name = VBA.Format(i, "dd-mmm-yy")  
        End If  
    Next  
    Sheet1.Activate
```

End Sub

**C) Data Paste in Master Sheet to the deference sheet**

```
Sub Datacompile()  
    Dim sh As Worksheet
```

# VBA (VISUAL BASIC APPLICATION)

```
Dim i, j As Integer
Set sh = ThisWorkbook.Sheets("Mastersheet")
sh.Range("A2:m" & sh.Cells(Rows.Count, "M").End(xlUp).Row).Clear
For i = 2 To Sheets.Count
    j = sh.Cells(Rows.Count, "A").End(xlUp).Row + 1
    Sheets(i).Range("A2:M" & Sheets(i).Cells(Rows.Count, "M").End(xlUp).Row).Copy sh.Cells(j, 1)
    Next
End Sub
```

## **D) Pest Data according to filter eg by region, by city, by zone. & create sheet name**

```
Private Sub CommandButton2_Click()
    Dim sh As Worksheet
    Dim i As Integer
    Dim rng As Range
    Set sh = ThisWorkbook.Sheets("Mastersheet")
    Set rng = sh.Range("N1:N" & sh.Cells(Rows.Count, "N").End(xlUp).Row)
    rng.AdvancedFilter Action:=xlFilterCopy, copytorange:=sh.Range("T1"), unique:=True

    For i = 2 To sh.Cells(Rows.Count, "T").End(xlUp).Row
        Sheets.Add after:=Sheets(Sheets.Count)
        Sheets(Sheets.Count).Name = sh.Cells(i, "T").Value

        sh.Range("A1:N1").AutoFilter field:=14, Criteria1:=sh.Cells(i, "T").Value, visibledropdown:=False
        sh.Range("A1:N" & sh.Cells(Rows.Count, "N").End(xlUp).Row).Cells.SpecialCells(xlCellTypeVisible).Copy Sheets(Sheets.Count).Cells(1, 1)
        Sheets(Sheets.Count).Columns.AutoFit
    Next
End Sub
```

## **e) Pest Data according to filter eg. by region, by city, by zone. & Save in Folder.**

```
Private Sub CommandButton2_Click()
    Dim i As Integer
    Dim sh As Worksheet
    Dim wkb, akb As Workbook
    Dim path As String, fullpath
    Dim rng As Range
    Set sh = ThisWorkbook.Sheets("Sheet1")
    Set akb = ActiveWorkbook
```

# VBA (VISUAL BASIC APPLICATION)

```
On Error Resume Next
RmDir "C:\Gunjan"
MkDir "C:\Gunjan\"
Application.ScreenUpdating = False
Set rng = sh.Range("N1:N" & sh.Cells(Rows.Count, "N").End(xlUp).Row)
rng.AdvancedFilter Action:=xlFilterCopy, copytorange:=sh.Range("S1"), unique:=True
For i = 2 To sh.Cells(Rows.Count, "S").End(xlUp).Row
Set akb = Workbooks.Add
sh.Range("a1:N1").AutoFilter field:=14, Criteria1:=sh.Cells(i, "S").Value, visibledropdown:=False
sh.Range("a1").CurrentRegion.Copy akb.Sheets(1).Cells(1, 1)
akb.SaveAs "C:\Gunjan\" & sh.Cells(i, "S").Value & ".xlsx"
akb.Sheets(1).Columns.AutoFit
akb.Save
akb.Close
Next
End Sub
```

## DO WHILE/UNTIL

For Next	Limited
For each	Object
Do while/Do Until	Unlimited
While Wend	

### Do while

Do While i<=10  
Output

### Do Until

1 Do until i>10  
output



# VBA (VISUAL BASIC APPLICATION)

i=i+1

Loop

Note : it work when condition is true

i=i+1

Loop

Note : it work when condition is False

---

## 1. Create series in C Column

```
Private Sub CommandButton1_Click()  
    Dim counter As Integer  
    counter = 1  
    Do While counter < 10  
        Cells(counter, "C").Value = counter  
        counter = counter + 1  
    Loop  
End Sub
```

## 2. Value Multiply in beside column

1 Multiply 10 =	10
2 Multiply 10 =	20
3 Multiply 10 =	30
4 Multiply 10 =	40
5 Multiply 10 =	50
6 Multiply 10 =	60
7 Multiply 10 =	70
8 Multiply 10 =	80

# VBA (VISUAL BASIC APPLICATION)

9 Multiply 10 =	90
10 Multiply 10 =	100

```
Private Sub CommandButton1_Click()  
    Dim i As Integer  
    Dim EN As Integer  
    Dim TT As Integer  
    EN = 11  
    TT = 10  
    i = 1  
    Do While i < EN  
        answer = i * TT  
        Cells(i, "B").Value = i & " Multiply " & TT & " = "  
        Cells(i, "B").Offset(, 1).Value = answer  
        i = i + 1  
    Loop  
End Sub
```

### 3. Sum right side of value

Data1	Data2	Total Sum
27	47	74
26	68	94
38	105	143
56	21	77
77	33	110
109	13	122
38	86	124

# VBA (VISUAL BASIC APPLICATION)

```
Private Sub CommandButton1_Click()  
    ActiveSheet.Range("c2").Select  
    Do While Not VBA.IsEmpty(ActiveCell.Offset(0, -1))  
        ActiveCell.Offset(0, 0).Value = ActiveCell.Offset(0, -2).Value + ActiveCell.Offset(0, -  
        1).Value  
        ActiveCell.Offset(1, 0).Select  
    Loop  
End Sub
```

## 4. Sum below of Numerical Value

Data1	Data2	Data3	Data4	Data5
	92	31	68	70
234	100	41	40	77
2	63	81	69	1
4	29	32		12
	18	38		2
90	90	45		64

# VBA (VISUAL BASIC APPLICATION)

100	100	8	18	58
28	64	63	68	87
	71	1	43	18
	2	79	73	95
	8	28	54	100
52	11		42	42
30	43		73	95

```
Private Sub CommandButton1_Click()  
Dim i As Integer  
Dim rng As Range  
Dim rng1 As Range  
i = 1  
Do While i <= Range("a1").End(xlToRight).Column  
Set rng = Range(Cells(2, i), Cells(Rows.Count, i))  
Cells(21, i).Value = WorksheetFunction.Sum(rng)  
i = i + 1  
Loop  
  
End Sub
```

**Create Hyperlink as per Worksheet Name in active sheet**

[Example](#)

[Loop\\_1](#)

[Loop\\_2](#)

[Loop\\_3](#)

[Loop\\_4](#)

[Loop\\_5](#)

```
Private Sub CommandButton2_Click()
```

# VBA (VISUAL BASIC APPLICATION)

```
Dim i As Integer
i = 1
Do While i <= Sheets.Count
Sheets(6).Range("A" & i).Hyperlinks.Add anchor:=Sheets(6).Cells(i, 1), Address:="",
SubAddress:="" & Sheets(i).Name & "" & "!a1"
Sheets(6).Range("A" & i).Value = Sheets(i).Name
i = i + 1
Loop
```

End Sub

## For Each – 2

Sr. No	Agenda
1	Column A is Color , Column B status will be True

```
Private Sub CommandButton1_Click()
Dim rng As Range, cell
Set rng = ActiveSheet.Range("A2:A20")
For Each cell In rng
'If cell.Interior.Color = vbRed Then
If cell.Interior.ColorIndex >= 1 Then

cell.Offset(0, 1).Value = "True"
End If
Next
End Sub
```

Sr. No	Agenda
2	Remove Space of Selection Field

```
Private Sub CommandButton1_Click()
Dim rng As Range
For Each rng In Selection
rng.Value = Application.WorksheetFunction.Trim(rng.Value)
Next
End Sub
```

Sr. No	Agenda
3	Remove Enter of Selection Field

```
Private Sub CommandButton1_Click()
```

# VBA (VISUAL BASIC APPLICATION)

```
Dim rng As Range
For Each rng In Selection
    rng.Value = Application.WorksheetFunction.Substitute(rng.Value, Chr(10), " ")
Next
End Sub
```

Sr. No	Agenda
4	Remove Shape of Active Sheet

```
Private Sub CommandButton1_Click()
    Dim sh As Worksheet
    Dim sap As Shape
    For Each sh In ActiveWorkbook.Sheets
        For Each sap In sh.Shapes
            sap.Delete
        Next
    Next
End Sub
```

Sr. No	Agenda
5	Unmerge as per range

```
Private Sub CommandButton1_Click()
    Dim sh As Worksheet
    Dim rng As Range
    For Each sh In ActiveWorkbook.Sheets
        Selection.UnMerge
    Next
End Sub
```

## For Each – 3

Sr. No	Agenda
1	Delete Duplicate Value as per Range

```
Private Sub CommandButton1_Click()
    Dim rng As Range, cell
    Set rng = ActiveSheet.Range("B3:G23")
    For Each cell In rng
        If WorksheetFunction.CountIf(rng, cell.Value) > 1 Then
            cell.ClearContents
        End If
    Next
End Sub
```

# VBA (VISUAL BASIC APPLICATION)

Sr. No	Agenda
2	Highlight Duplicate Value as per Range

```
Private Sub CommandButton2_Click()  
    Dim rng As Range, cell  
    Set rng = ActiveSheet.Range("A25:F45")  
    For Each cell In rng  
        If WorksheetFunction.CountIf(rng, cell.Value) = 1 Then  
            cell.Interior.Color = vbGreen  
        End If  
    Next  
End Sub
```

Sr. No	Agenda					
3	Skip Blank					
42	13	72	21	78		
29	98	26	16			
75	97	25	45	45		
38	60	92				

```
Private Sub CommandButton1_Click()  
    Dim rng As Range, cell  
    Set rng = Range("A1:H24")  
    For Each cell In rng  
        If cell.Value = "" Then  
            If cell.Offset(0, 1).Value = "" Then  
                cell.End(xlToRight).Cut cell  
            Else  
                cell.Offset(0, 1).Cut cell  
            End If  
        End If  
    Next  
End Sub
```

End Sub

Sr. No	Agenda
4	Sum start cell to last Cell in active cell

```
Private Sub CommandButton1_Click()  
    RN = ActiveCell.Row  
    CN = ActiveCell.Column  
    For Each cell In Selection  
        RN = cell.Row  
        CN = cell.Column  
        For c = 1 To CN - 1  
            i = i + Cells(RN, c)  
        Next  
        cell.Value = i  
    Next  
End Sub
```

# VBA (VISUAL BASIC APPLICATION)

```
i = 0
Next
End Sub
```

## For Each – 4

**Compile data in single sheet of different sheets. & Save**

```
Sub Backupsheet()
    Dim path As String
    path = Application.ActiveWorkbook.path
    Application.ScreenUpdating = False
    Application.DisplayAlerts = False
    For Each WS In ThisWorkbook.Sheets
        WS.Copy
        Application.ActiveWorkbook.SaveAs Filename:=path & "\" & WS.Name & ".xlsx"
        Application.ActiveWorkbook.Close False
    Next
End Sub
```

## Do Until

Sr. No	Agenda
1	Sheet Name Show in MsgBox

```
Private Sub CommandButton1_Click()
    Dim i As Integer
    Dim j As Integer
    i = 1
    j = Sheets.Count
    Do Until i > j
        MsgBox Sheets(i).Name
        i = i + 1
    Loop
End Sub
```



# VBA (VISUAL BASIC APPLICATION)

Sr. No	Agenda
2	Sheet Move each other

```
Private Sub CommandButton1_Click()  
    Dim i As Integer  
    Dim j As Integer  
    Dim k As Integer  
    i = 1  
    k = 1  
    j = Sheets.Count  
    Do Until k > j  
        Sheets(i).Move after:=Sheets(j)  
        MsgBox Sheets(j).Name & " has been moved after " & Sheets(i + 1).Name  
        k = k + 1  
    Loop  
End Sub
```

Sr. No	Agenda
3	Last use row count & Entire Row Delete if found Blank cell

```
Private Sub CommandButton1_Click()  
    Dim i As Integer  
    Dim j As Integer  
    Dim rng As Range  
    Set rng = Sheet4.Range("A1:a" & Sheet4.Cells(Rows.Count, "a").End(xlUp).Row)  
    i = rng.Count  
    MsgBox i  
    j = 1  
    Do Until j > i  
        If Sheet4.Cells(j, 1).Value = "" Then  
            Sheet4.Cells(j, 1).EntireRow.Delete  
        End If  
        j = j + 1  
    Loop
```

# VBA (VISUAL BASIC APPLICATION)

```
        j = j + 1
    Loop
End Sub
Private Sub CommandButton2_Click()
    Dim i, j As Integer
    Dim rng As Range
    Set rng = Sheets(4).Range("A1:A20")
    i = rng.Count
    j = 1
    Do Until j > i
        If Sheets(4).Cells(j, 1).Value = "" Then
            Sheets(4).Cells(j, 1).EntireRow.Delete
        End If
        j = j + 1
    Loop
End Sub
```

Sr. No	Agenda
4	Add Comment as per 'C' Column Ref.

```
Private Sub CommandButton2_Click()
    Dim i, j As Integer
    Dim str As String
    Dim rng As Range
    Set rng = Sheets(5).Range("C1:C122")
    i = rng.Count
    j = 1
    Do Until j > i
        str = Sheets(5).Cells(j, 3).Value
        Sheets(5).Cells(j, 4).AddComment str
        j = j + 1
    Loop
End Sub
```

Sr. No	Agenda
5	Digit Sum as per A Column ref

Eg. 23      =>5  
42          =>6

```
Private Sub CommandButton1_Click()
    Dim i As Integer
    Dim j As Integer
    Dim k As Integer
    Dim l As Integer
    Dim sh As Worksheet
    Set sh = ThisWorkbook.Sheets(6)
    Set rng = sh.Range("A1:A" & sh.Cells(Rows.Count, "A").End(xlUp).Row)
```

# VBA (VISUAL BASIC APPLICATION)

```
k = rng.Count
j = 1
MsgBox k
With sh
Do Until j > k
    i = VBA.Len(sh.Cells(j, 1))
    l = 1
    Do Until l > i
        .Cells(j, 2).Value = .Cells(j, 2).Value + Mid(.Cells(j, 1), l, 1)
        l = l + 1
    Loop
    j = j + 1
Loop
End With
```

End Sub

Sr. No	Agenda
6	Sheet No Count and Create a New Sheet if not exist in the same workbook

```
Private Sub CommandButton1_Click()
    Dim i As Integer
    Dim str As String
    Dim k As Integer
    k = Sheets.Count
    MsgBox "Total sheets in this workbook " & k
    i = 1
    str = Application.InputBox("Provide Sheet Name")
    Do Until i > k
        If str = "" Then
            MsgBox "Please provide valid sheet name"
            Exit Sub
        ElseIf UCase(Sheets(i).Name) = UCase(str) Then
            MsgBox str & " already exist."
            Exit Sub
        Else
            MsgBox "Sheet:" & i & " is not " & str & "."
            i = i + 1
        End If
    Loop
    Sheets.Add after:=Sheets(Sheets.Count)
    Sheets(Sheets.Count).Name = str
End Sub
```

Sr. No	Agenda
7	Total Data Count & Digit Change in reverse order

```
Private Sub CommandButton2_Click()
    Dim i, j, k, l As Integer
    Dim sh As Worksheet
```

# VBA (VISUAL BASIC APPLICATION)

```
Set sh = ThisWorkbook.Sheets(8)
Set rng = sh.Range("A1:A7")
k = Sheets.Count
j = 1
With sh
Do Until j > k
i = VBA.Len(sh.Cells(j, 1))
l = 1
Do Until l > i
.Cells(j, 2).Value = .Cells(j, 2).Value & Mid(.Cells(j, 1), (i + 1) - l, 1)
l = l + 1
Loop
j = j + 1
Loop
End With
End Sub
```

Sr. No	Agenda
8	Sheet Move in reverse order

```
Private Sub CommandButton2_Click()
Dim i, j, k, l As Integer
i = 1
k = 1
j = 1
l = Sheets.Count
Do Until k > l
If k = 1 Then
Sheets(i).Move after:=Sheets(l)
k = k + 1
Else
Sheets(i).Move after:=Sheets(l - j)
j = j + 1
k = k + 1
End If
Loop
End Sub
```

## Do Until 2

### **a) Row Insert as per our need**

```
Private Sub CommandButton2_Click()
Dim i As Integer
i = InputBox("Enter No of Rows")
If i <= 0 Then
Exit Sub
End If
```

# VBA (VISUAL BASIC APPLICATION)

```
Do Until Selection.Value = ""
ActiveCell.Offset(1, 0).Range("a1:A" & i).Select
Selection.Insert shift:=xlDown
ActiveCell.Offset(i, 0).Select
Loop
End Sub
```

## Do Until 3

**All Data Copy and paste in new added WS as per our need. (Duplicate sheet)**

```
Private Sub CommandButton2_Click()
Dim i, j As Integer
Dim sh As Worksheet
Set sh = ThisWorkbook.Sheets(2)
i = Application.InputBox("Enter No of New Sheets")
j = 1
With sh
Do Until j > i
sh.UsedRange.Copy
Sheets.Add after:=Sheets(Sheets.Count)
Sheets(Sheets.Count).Cells(1, 1).Select
ActiveSheet.Paste
j = j + 1
Loop
End With
End Sub
```

## Do While -1

**All Workbook Compile in active sheet from a folder**

```
Sub Datacompile()
Dim path As String
Dim fullpath As String
Dim fl As String
Dim wkb As Workbook
Dim i As Integer
```

# VBA (VISUAL BASIC APPLICATION)

```
Dim sh As Worksheet
Set sh = ActiveSheet
path = "C:\Users\Nilesh\Desktop\vba-24th Nov\"
fl = Dir(path & "*.xlsx")
Do While fl <> ""
    fullpath = path & fl
    Set wkb = Workbooks.Open(fullpath)
    i = sh.Cells(Rows.Count, "A").End(xlUp).Row + 1
    'wkb.Sheets(1).UsedRange.Copy sh.Cells(i, 1)
    wkb.Sheets(1).Range("A2:N" & wkb.Sheets(1).Cells(Rows.Count,
    "N").End(xlUp).Row).Copy sh.Cells(i, 1)
    wkb.Close
    fl = Dir
    Loop
End Sub
```

## Do While -2

### All Workbook Compile in active sheet from a folder

#### **Private Sub CommandButton1\_Click()**

```
Dim wkb As Workbook
Dim akb As Workbook
Dim sh As Worksheet
Dim i As Integer
Dim pth As String
Dim fl As String
Dim full_pth As String

Set akb = ActiveWorkbook
Set sh = ThisWorkbook.Sheets("Colleter")

pth = "C:\Users\Nilesh\Desktop\vba-24th Nov\New folder\"
fl = Dir(pth & "*.xlsx")
Do While fl <> ""
    full_pth = pth & fl

    Set wkb = Workbooks.Open(full_pth)
    i = sh.Cells(Rows.Count, "A").End(xlUp).Row + 1
    wkb.Sheets(1).Cells(1, 1).Select

    wkb.Sheets(1).Range(Selection, Selection.End(xlToRight).Address).Copy sh.Cells(1, 1)
    wkb.Sheets(1).Range("a2").CurrentRegion.Select
    Selection.Offset(1, 0).Resize(Selection.Rows.Count, Selection.Columns.Count).Copy
    sh.Cells(i, 1)

    wkb.Close
    sh.Columns.AutoFit
```

# VBA (VISUAL BASIC APPLICATION)

```
        fl = Dir
Loop
End Sub
```

## User Define Function

Sr. No	Agenda
1	Count

```
Function Count1(rng As Range)
    Dim cell As Range
    Dim i As Integer
    For Each cell In rng
        If cell.Value <> "" And VBA.IsNumeric(cell.Value) Then
            i = i + 1
        End If
    Next
    Count1 = i
End Function
```

Sr. No	Agenda
2	Countif

```
Function Countif1(rng As Range, abc As Range)
    Dim cell As Range
    Dim i As Integer
    i = 0
    For Each cell In rng
        If VBA.UCase(cell.Value) = VBA.UCase(abc.Value) Then
            i = i + 1
        End If
    Next
    Countif1 = i
End Function
```

# VBA (VISUAL BASIC APPLICATION)

Sr. No	Agenda
3	Text Split

```
Function Text1(rng As Range)
    Dim i As Integer
    For i = 1 To Len(rng)
        If VBA.Mid(rng, i, 1) Like "[a-z,A-Z]" Then
            Text1 = Text1 & Mid(rng, i, 1)
        End If
    Next
End Function
```

Sr. No	Agenda
4	Number Split

```
Function Nume(rng As Range)
    Dim i As Integer
    For i = 1 To Len(rng)
        If VBA.Mid(rng, i, 1) Like "[0-9]" Then
            Nume = Nume & VBA.Mid(rng, i, 1)
        End If
    Next
End Function
```

Sr. No	Agenda
5	Special characters Split

```
Function SPL(rng As Range)
    Dim i As Integer
    For i = 1 To Len(rng)
        If Not VBA.Mid(rng, i, 1) Like "[a-z,A-Z,0-9]" Then
            SPL = SPL & Mid(rng, i, 1)
        End If
    Next
End Function
```

Sr. No	Agenda
6	Color count

```
Function Color_count(rng As Range, ctr As Range)
    Dim cell As Range
    Dim i As Integer
    For Each cell In rng
        If cell.Interior.Color = ctr.Interior.Color Then
            i = i + 1
        End If
    Next cell
End Function
```



# VBA (VISUAL BASIC APPLICATION)

```
Color_count = i  
End Function
```

Sr. No	Agenda
7	Reverse Order

```
Function Retext(rng As Range)  
    Retext = VBA.StrReverse(rng)  
End Function
```

Sr. No	Agenda
8	Total Day (Apart From Sunday)

Start Date	End Date	Total Day (Apart From Sunday)
11/29/2013	12/29/2013	26

```
Function daycount(sdate As Date, edate As Date)  
    Dim i As Long  
    Dim j As Integer  
    For i = sdate To edate  
        If VBA.Weekday(i, vbMonday) <= 6 Then  
            j = j + 1  
        End If  
    Next  
    daycount = j  
End Function
```

9. Data	Evaluator
2+2-2/2*2	2
35/143-20	-19.75524476
23+10	33
345-12	333
345-110	235
12*23	276

```
Function Eval(rng As Range)  
    Eval = Application.Evaluate("=" & rng)  
End Function
```

## 11. Work Book Name

# VBA (VISUAL BASIC APPLICATION)

```
Function WKN()  
Application.Volatile  
WKN = ActiveWorkbook.Name
```

## **12. Work Sheet Name**

```
Function WSN()  
Application.Volatile  
WSN = ActiveSheet.Name
```

```
End Function
```

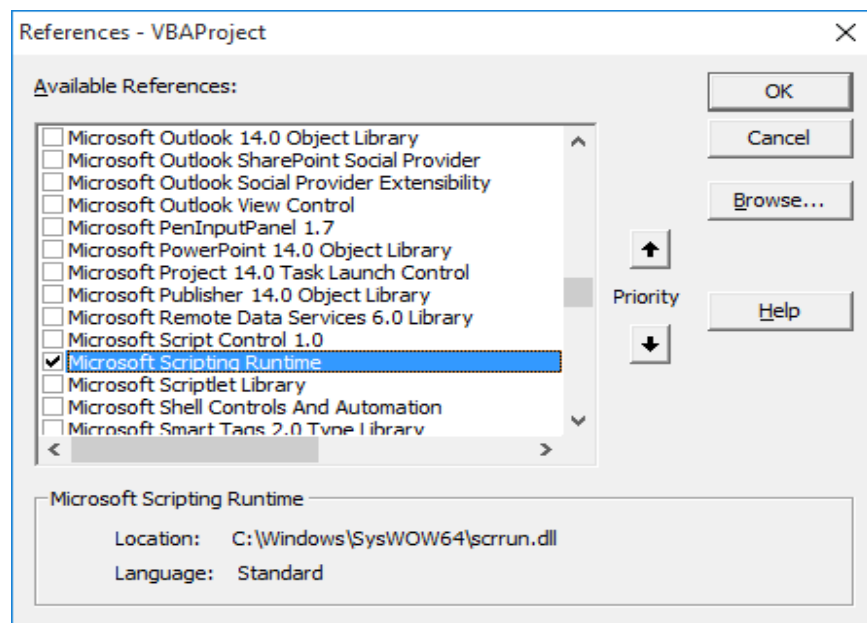
Sr. No	Agenda
1	Date Format Change (UDF)

```
Function Day_F(rng As Range)  
Select Case Day(rng.Value)  
Case 1, 21, 31  
Day_F = VBA.Day(rng) & "st" & VBA.Format(rng, " mmm' yy")  
Case 2, 22  
Day_F = VBA.Day(rng) & "nd" & VBA.Format(rng, " mmm' yy")  
Case 3, 23  
Day_F = VBA.Day(rng) & "rd" & VBA.Format(rng, " mmm' yy")  
Case Else  
Day_F = VBA.Day(rng) & "th" & VBA.Format(rng, " mmm' yy")  
End Select  
End Function
```

# VBA (VISUAL BASIC APPLICATION)

## FSO (File system object)

Add this library



Sub File\_Tracker()

Dim fso As FileSystemObject

Dim fol As Folder

Dim fil As File

Dim sh As Worksheet

Dim path As String

Application.FileDialog(msoFileDialogFolderPicker).Show

path = Application.FileDialog(msoFileDialogFolderPicker).SelectedItems(1) & "\"

Set sh = ThisWorkbook.Sheets(2)

sh.UsedRange.Clear

# VBA (VISUAL BASIC APPLICATION)

```
Set fso = New FileSystemObject
Set fol = fso.GetFolder(path)
With sh
i = 2
For Each fil In fol.Files
.Cells(i, 1).Value = fil.Name
.Cells(i, 2).Value = fil.DateCreated
.Cells(i, 3).Value = fil.DateLastModified
.Cells(i, 4).Value = fil.Type
.Cells(i, 5).Value = fil.Size
i = i + 1
Next
End With
End Sub
```

Note we have a folder name is Test data in that 4 file name is

1. Ram
2. HDD
3. Server
4. Processor

```
Private Sub CommandButton1_Click()
Dim fso As New FileSystemObject
Dim fldr As Folder
Dim fl As File
Dim i As Long
Dim wkb As Workbook
Dim akb As Workbook
Dim sh As Worksheet
Dim sh1 As Worksheet
Set akb = ThisWorkbook
```

```
On Error Resume Next
```

```
Set fldr = fso.GetFolder("F:\Nilesh\Excel _ Macro Training_Class\1_Training\2_Macro Vs
VBA\VBA-Training\16-File System Object (FSO)\FSO\Test_Data\")
For Each fl In fldr.Files
If fl.Name <> "Mastersheet.xlsx" Then
Workbooks.Open Filename:=fl
Set wkb = ActiveWorkbook
End If
```

```
For Each sh In wkb.Sheets
For Each sh1 In akb.Sheets
If sh.Name = sh1.Name Then
i = sh1.Cells(Rows.Count, 1).End(xlUp).Row + 1
sh.Range("A2:F" & sh.Cells(Rows.Count, "F").End(xlUp).Row).Copy sh1.Cells(i, 1)
```

# VBA (VISUAL BASIC APPLICATION)

```
End If
Next sh1
wkb.Close
Next sh
Next fl

End Sub
```

## Array

```
Sub Array1()
    Dim arr(6) As String
    Dim i As Integer
    arr(0) = "Sun"
    arr(1) = "Mon"
    arr(2) = "Tue"
    arr(3) = "Wed"
    arr(4) = "Thu"
    arr(5) = "Fri"
    arr(6) = "Sat"
    For i = 0 To UBound(arr())
        MsgBox arr(i)
    Next
End Sub
```

```
Sub Arr2()
    Dim sh As Worksheet
    Dim rng
    Set sh = ThisWorkbook.Sheets(2)
    rng = sh.Range("A2:B" & sh.Cells(Rows.Count, "B").End(xlUp).Row)
    For i = LBound(rng) To UBound(rng)
        MsgBox rng(i, 1)
        MsgBox rng(i, 2)
    Next
End Sub
```

End Sub

```
Sub arr3()
    Dim str As String
    Dim arr
    str = "I am VBA User"
    arr = VBA.Split(str, " ")
End Sub
```

# VBA (VISUAL BASIC APPLICATION)

```
For i = LBound(arr) To UBound(arr)
    MsgBox (arr(i))
Next
End Sub
```

## User Form

Candidate Name	Roll No	Class	Subject
Gunjan	101	Graduation	Excel

# VBA (VISUAL BASIC APPLICATION)

Candidate Name	ram
Roll No	100
Class	12th
Subject	DCA
<div>Clear</div> <div>Submit</div> <div>End</div>	

## **Note: For Command Button**

```
Private Sub CommandButton1_Click()  
    UserForm1.Show  
End Sub  
Form
```

## **Note :- For Text Box**

```
Private Sub CommandButton1_Click()  
    TextBox1.Text = ""
```

# VBA (VISUAL BASIC APPLICATION)

```
        TextBox2.Text = ""  
        TextBox3.Text = ""  
        TextBox4.Text = ""  
End Sub
```

## **Note:- For Submit Button:-**

```
Private Sub CommandButton2_Click()  
    Dim i As Integer  
    i = Sheet1.Cells(Rows.Count, 1).End(xlUp).Row + 1  
    Cells(i, 1) = TextBox1.Text  
    Cells(i, 2) = TextBox2.Text  
    Cells(i, 3) = TextBox3.Text  
    Cells(i, 4) = TextBox4.Text  
  
End Sub
```

## **Note:- For End Button**

```
Private Sub CommandButton3_Click()  
    Unload Me  
End Sub
```

Name	Subject	Number	Result
Raj	English	33	Pass
Raj	English	20	Fail



# VBA (VISUAL BASIC APPLICATION)

The image shows a VBA UserForm with a light gray background. It contains four input fields arranged vertically, each with a label to its left: 'Name', 'Subject', 'Number', and 'Result'. The 'Name' field is a standard text box with a vertical cursor. The 'Subject' field is a combobox with a dropdown arrow on its right side. The 'Number' and 'Result' fields are standard text boxes. Below these fields is a 'Submit' button with a light gray background and a thin border.

```
Sub Button1_Click()  
UserForm1.Show  
End Sub
```

```
Private Sub UserForm_Initialize()  
ComboBox1.List = Array("English", "Hindi", "Math")  
  
End Sub
```

```
Private Sub CommandButton1_Click()  
Dim i As Long  
Dim sh As Worksheet  
Set sh = ThisWorkbook.Sheets(1)  
  
i = sh.Range("A" & Rows.Count).End(xlUp).Row
```

# VBA (VISUAL BASIC APPLICATION)

```
sh.Cells(i + 1, 1).Value = TextBox1.Text  
sh.Cells(i + 1, 2).Value = ComboBox1.Value  
sh.Cells(i + 1, 3).Value = TextBox2.Text
```

```
If TextBox2.Value > 30 = True Then  
    TextBox3.Text = "Pass"  
sh.Cells(i + 1, 4).Value = TextBox3.Text  
Else  
    TextBox3.Text = "Fail"  
sh.Cells(i + 1, 4).Value = TextBox3.Text  
End If
```

```
End Sub
```

## IF()

```
Sub abcd()  
    Dim math As Long, Sin As Long  
    math = Application.InputBox("Enter Marks of Math", "Pasing Criteria 50")  
    Sin = Application.InputBox("Enter Marks of Sin", "Pasing Criteria 30")  
    If math >= 50 And Sin >= 30 Then  
        MsgBox "Pass in both Subject"  
        ElseIf Sin >= 30 And math < 50 Then  
            MsgBox "Pass in sin but fail in math"  
        ElseIf Sin < 30 And math >= 50 Then  
            MsgBox "Fail in sin but Pass in math"  
    Else  
        MsgBox "Fail in both Subject"  
    End If  
End Sub
```

## Outlook

Candidate ID	CandidateName	EnrollmentNumber	NameOfFatherOrHusband	Email ID
--------------	---------------	------------------	-----------------------	----------

# VBA (VISUAL BASIC APPLICATION)

6947270	Gandhimadhi Gopi	BWSSC/NKL/B1/008	Gopi	gunjan@gmail.com
6947271	Gowri Veerasamy	BWSSC/NKL/B1/009	Veerasamy	gunjan@gmail.com
6947272	Jayamani Ashogan	BWSSC/NKL/B1/010	Ashogan	gunjan@gmail.com
6947273	Kalaiyarasi Kandhasamy	BWSSC/NKL/B1/011	Kandhasamy	gunjan@gmail.com
6947274	Kavitha Velusamy	BWSSC/NKL/B1/012	Velusamy	gunjan@gmail.com
6947396	Kamatchi B	BWSSC/MANACHANALLUR/B1/07	BALU	Rajesh@yahoo.com
6947397	Kavitha P	BWSSC/MANACHANALLUR/B1/08	PERIYASAMY	Rajesh@yahoo.com
6947398	Kayathri T	BWSSC/MANACHANALLUR/B1/09	THIRUVENGADAM	Rajesh@yahoo.com
6947399	Kirija A	BWSSC/MANACHANALLUR/B1/10	ANNADURAI	Rajesh@yahoo.com
6954011	Prameswari Mahalingam	BWSSC/NKL/B2/023	Mahalingam	Rish@hotmail.com
6954012	Priya Elavarasan	BWSSC/NKL/B2/024	Elavarasan	Rish@hotmail.com
6954013	Rukshana Mansoor Rahman	BWSSC/NKL/B2/025	Mansoor Rahn	Rish@hotmail.com
6954014	Sasikala Ramasamy	BWSSC/NKL/B2/026	Ramasamy	Rish@hotmail.com
6954015	Sindhuja Murugesan	BWSSC/NKL/B2/027	Murugesan	Rish@hotmail.com
6966478	Sangeetha N	BWSSC/NKL/B3/017	Nallaiyan	Plogix.xl@gmail.com
6966479	Saranya Saravanan	BWSSC/NKL/B3/018	Saravanan	Plogix.xl@gmail.com
6966480	Saranya Subramaniyam	BWSSC/NKL/B3/019	Subramaniyam	Plogix.xl@gmail.com

Private Sub CommandButton1\_Click()  
 Dim sh As Worksheet  
 Dim rng As Range  
 Dim i As Integer  
 Dim path As String  
 Dim wkb, tkb As Workbook

# VBA (VISUAL BASIC APPLICATION)

```
Dim olapp As Outlook.Application
Dim mailitem As Outlook.MailItem

Set tkb = ThisWorkbook
Set sh = ThisWorkbook.Sheets(1)
On Error Resume Next
Rmdir "C:\OutlookAuto"
Mkdir "C:\OutlookAuto\"
Application.ScreenUpdating = False

Set rng = sh.Range("N1:N" & sh.Cells(Rows.Count, "N").End(xlUp).Row)
rng.AdvancedFilter Action:=xlFilterCopy, copytorange:=sh.Range("T1"), unique:=True
Set olapp = New Outlook.Application

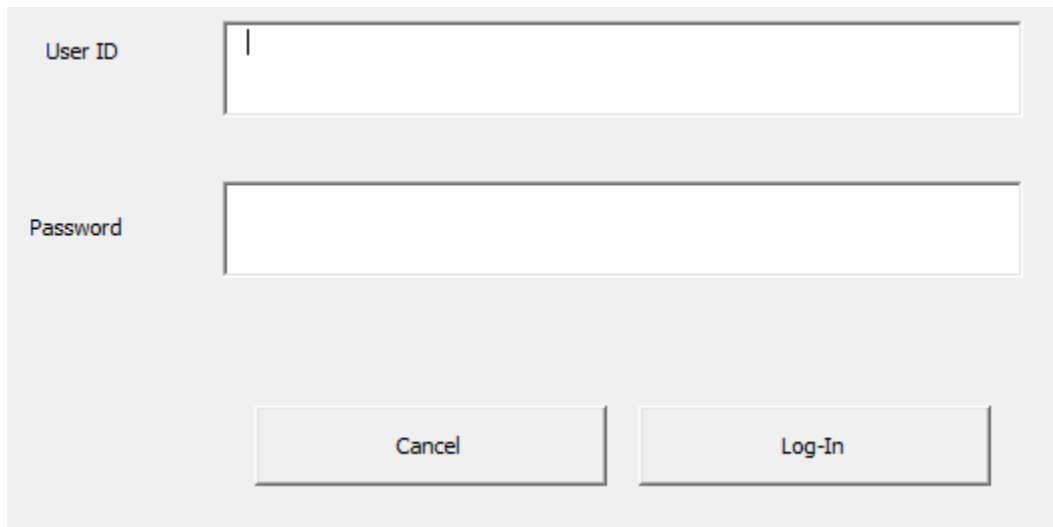
For i = 2 To sh.Cells(Rows.Count, "T").End(xlUp).Row
    Set mailitem = olapp.CreateItem(olMailItem)
    Set wkb = Workbooks.Add

    sh.Range("A1:N1").AutoFilter field:=14, Criteria1:=sh.Cells(i, "T"),
    visibledropdown:=False
    sh.Range("A1:n" & sh.Cells(Rows.Count,
    "N").End(xlUp).Row).SpecialCells(xlCellTypeVisible).Copy wkb.Sheets(1).Cells(1, 1)
    wkb.SaveAs "C:\OutlookAuto\" & sh.Cells(i, "T").Value & ".xlsx"
    wkb.Close
    With mailitem
        .To = sh.Cells(i, "T").Value
        .CC = "abc@gmail.com"
        .BCC = "xyx@yahoo.com"
        .Subject = sh.Range("W1").Value
        .Body = "Dear Sir/Ma'am," & Chr(10) & "Please find the attached Daily MIS Report" &
        Chr(10) & Chr(10) & "Thanks & Regards, " & Chr(10) & "VBA Team"
        .Attachments.Add "C:\OutlookAuto\" & sh.Cells(i, "T").Value & ".xlsx"
        .Display
        .Send
    End With

Next
End Sub
```

**Login ID**

# VBA (VISUAL BASIC APPLICATION)



## **For Cancel**

```
Private Sub CommandButton1_Click()  
    Unload Me  
    ActiveWorkbook.Close  
    Application.Quit  
End Sub
```

## **For Log-In**

```
Private Sub CommandButton2_Click()  
    Dim sh As Worksheet  
    Set sh = ThisWorkbook.Sheets(1)  
  
    If TextBox1 = sh.Range("A1") Then  
        If TextBox2 = sh.Range("b1") Then  
            MsgBox "Welcome to you"  
            Application.Visible = True  
            Unload Me  
        Else  
            MsgBox "You have Entered Wrong Information, Please try again"  
        End If  
    End If  
  
End Sub
```

**ID, Password will be cell No. A1, b1 which on code**