

## Excel VBA and Macros

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Macros in Excel are like a recording which records your operations, for example you want to find sum of cells from A1 to A10 so you can make a macro in Excel which will automatically do this for you.

Macros can be made using Record Macro Button.

To Make Macros and use VBA in your excel file you need to enable Developer Tab in Excel which you can do by customizing the toolbar Ribbon.

The Developer tab isn't displayed by default, but you can add it to the ribbon.

On the File tab, go to Options > Customize Ribbon.

Under Customize the Ribbon and under Main Tabs, select the Developer check box.

Now to use enable macros and vba in your excel file save the excel file as Excel WorkBook Macro Enabled which has the extension as .xlsm

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Now How to use VBA in your excel file

What is VBA?

Excel VBA, short for Visual Basic for Applications, is a programming language that empowers users to automate tasks and create personalized solutions within Microsoft Excel.

VBA is just like Microsoft Visual Basic 6.0.

Tutorial for Visual Basic 6.0 is available at

[vb6handbook.pdf \(cppcourses.com\)](http://vb6handbook.pdf.cppcourses.com)

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Following Code will also help you in writing VBA For Excel

```
Public Sub myproc()
```

```
ActiveSheet.Range("A1").Value = "Aman Deep"
```

```
End Sub
```

```
Public Sub myproc1()
```

```
MsgBox ("Hello World")
```

```
End Sub
```

```
Public Sub myproc2()
```

```
Dim a As Integer
```

```
Dim b As String
```

```
a = 10
```

```
b = "Raman"
```

```
MsgBox (a)
```

```
MsgBox (b)
```

```
End Sub
```

```
Public Sub myproc3()
```

```
If ActiveCell.Value = 1234 Then
```

```
MsgBox ("Value is equal to 1234")
```

```
Else
```

```
MsgBox ("Value is not Equal to 1234")
```

```
End If
```

```
End Sub
```

```
Public Sub myproc4()
```

```
If ActiveCell.Value >= 80 And ActiveCell.Value <= 100 Then
```

```
MsgBox ("Marks are between 80 and 100")
```

```
ElseIf ActiveCell.Value >= 60 And ActiveCell.Value < 80 Then
```

```
MsgBox ("Marks are between 60 and 80")
```

```
Else
```

```
MsgBox ("Marks are less than 60")
```

```
End If
```

```
End Sub
```

```
Public Sub myproc5()
```

```
Select Case ActiveCell.Value
```

```
Case 1
```

```
MsgBox ("Value is 1")
```

```
Case 2
```

```
MsgBox ("Value is 2")
```

Case 3

MsgBox ("Value is 3")

End Select

End Sub

Public Sub myproc6()

For i = 1 To 10

Cells(i, 1).Value = i + 10 'i is at rowindex and 1 is at column index

Next i

End Sub

Public Sub myproc7()

Dim i As Integer

i = 1

Do While i <= 10

Cells(i, 1).Value = i

i = i + 1

Loop

End Sub

Public Sub myproc8()

ThisWorkbook.Worksheets("Sheet1").Range("A1").Select

End Sub

Public Sub myproc9()

'Selecting Entire Column

ThisWorkbook.Worksheets("Sheet1").Range("A:A").Select

End Sub

Public Sub myproc10()

'Selecting Entire Row

ThisWorkbook.Worksheets("Sheet1").Range("1:1").Select

End Sub

Public Sub EntireColumnRange()

ThisWorkbook.Worksheets("Sheet1").Range("A1:C6").Select

End Sub

Public Sub MergeRange()

ThisWorkbook.Worksheets("Sheet1").Range("B1:C5").Merge

End Sub

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