1. Declare a variable in VBA using the **Dim** keyword.

***1. Public Sub number()***

***Dim x As Integer***

***x = 36***

***Range("A5").Value = x***

***End Sub***

***2. Public Sub string\_value()***

***Dim book As String***

***Country = "India"***

***Range("F3").Value = Country***

***End Sub***

***3. Public Sub double\_value()***

***Dim book As Double***

***a = 10.5***

***MsgBox "Value of a is " & a***  *//Displaying a message box*

***End Sub***

***4. Public Sub FunWithProcedures()***

***Dim userInput As String***

***userInput = "Excel VBA"***

***ActiveCell.Value = userInput***

***End Sub***

1. Display your name when you click on a button

***Sub name()***

***MsgBox (“My name is Daniel”)***

***End Sub***

1. Display the number present in a cell when you run the macro.

***Sub number()***

***MsgBox ("Entered value is " & Range("A1").Value)***

***End Sub***

1. Display a message when you Open the Excel Workbook

***Sub Auto\_Open()***

***MsgBox ("Welcome to our Workbook")***

***End Sub***

1. Click a button that will display your name.

***Sub Entername()***

***Dim name As String***

***name = InputBox("Enter you name")***

***MsgBox "Hello my name is " + name***

***End Sub***

1. Add a value to a cell

***Public Sub addvalue()***

***Range("B3").Value = 3***

***End Sub***

1. Add a value to a cell or a range of cells

***Public Sub add\_value()***

***Range("A1:A4").Value = 10***

***End Sub***

***Public Sub add\_value()***

***Range("A1:A4").Value = 30***

***Range("C1:C4,D1:D4").Value = 20***

***End Sub***

***Public Sub add\_value()***

***Range("qty").Value = 15***

***Range("C1:C4,D1:D4").Value = 20***

***End Sub***

***Public Sub add\_value()***

***Cells(3, 2).Value = 10***

***Range(Cells(1, 2), Cells(3, 5)).Value = 30***

***End Sub***

1. Declare a range object using **Dim** and **Set**.

***Public Sub add\_values()***

***Dim example As Range***

***Set example = Range("A1:C4")***

***example.Value = 10***

***End Sub***

1. Select a range of cells in the same sheet

***Public Sub Select\_range()***

***Dim example As Range***

***Set example = Range("A1:C4")***

***example.Select***

***End Sub***

1. Select a range of cells in another sheet

***Public Sub Select\_range()***

***Worksheets(5).Activate***

***Worksheets(5).Range("B2:C7").Select***

***End Sub***

1. Copy cell contents and paste to another location

***Public Sub copy\_paste()***

***Range("A1:C4").Select***

***Selection.Copy***

***Range("E6").Select***

***ActiveSheet.Paste***

***End Sub***

1. Count the number of cells in a range

***Public Sub count\_cells()***

***Dim example As Range***

***Set example = Range("A1:C4")***

***MsgBox example.Count***

***End Sub***

1. To count the rows and columns in a selected range

***Public Sub count\_rows()***

***Dim example As Range***

***Set example = Range("A1:C4")***

***MsgBox (example.Columns.Count)***

***End Sub***

1. Using the **if statement** in VBA

***Public Sub If\_stmt()***

***Dim score As Integer, result As String***

***score = Range("A1").Value***

***If score >= 60 Then result = "pass"***

***Range("B1").Value = result***

***End Sub***

***Public Sub If\_stmt()***

***Dim userInput As String***

***userInput = "100"***

***If userInput > 50 Then***

***ActiveCell.Value = “It’s a valid entry”***

***Else***

***ActiveCell.Value = userInput***

***End If***

***End Sub***

1. Using the **if-else statement** in VBA

***Public Sub If\_else\_stmt()***

***Dim score As Integer, result As String***

***score = Range("A1").Value***

***If score >= 40 Then***

***result = "pass"***

***Else***

***result = "fail"***

***End If***

***Range("B1").Value = result***

***End Sub***

1. Use the **For** loop to add the first 10 positive integers.

***Sub AddNumbers()***

***Dim Total As Integer***

***Dim Count As Integer***

***Total = 0***

***For Count = 1 To 10***

***Total = Total + Count***

***Next Count***

***MsgBox Total***

***End Sub***

1. Add all the positive integers in a certain range starting from 10.

***Sub AddEvenNumbers()***

***Dim a As Integer***

***Dim Total As Integer***

***Dim Count As Integer***

***a = 25***

***Total = 0***

***For Count = 10 To a Step 2***

***Total = Total + Count***

***Next Count***

***MsgBox Total***

***End Sub***

1. Using the **do-while** loop in VBA

***Public Sub Loops()***

***Dim i As Integer***

***i = 1***

***Do While i < = 7***

***If ActiveCell.Value < 30 Then***

***ActiveCell.Interior.Color = RGB(200, 255, 150)***

***End If***

***ActiveCell.Offset(1, 0).Select***

***i = i + 1***

***Loop***

***End Sub***

Use the **do-while loop** to add the first 10 positive integers

***Sub AddFirst10PositiveIntegers()***

***Dim i As Integer***

***i = 1***

***Do While i <= 10***

***Result = Result + i***

***i = i + 1***

***Loop***

***MsgBox Result***

***End Sub***

1. Concatenate strings in VBA

***Sub join()***

***Dim text1 As String, text2 As String***

***text1 = "Hey"***

***text2 = "Rolee"***

***MsgBox text1 & " " & text2***

***End Sub***

1. Check the length of string

***Public Sub length()***

***Dim text As String***

***text = "Excel VBA Tutorial"***

***MsgBox Len(text)***

***End Sub***