

ADVANCE EXCEL FORMULA (FOR ALL USERS)

ANIL NAHAR

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Ready to Use Powerful Excel VBA Code (Part 2) – Customize Function is an independent publication and is not affiliated with, nor has it been authorized, sponsored, or otherwise approved by Microsoft Corporation.

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The purpose of this book is to provide basic guideline for people interested in Excel VBA programming. Collection of ready code has been used on reality platform by technical and non technical users on their routine. Although every effort and care has been taken to make the information as accurate as possible, the author shall not be liable for any error, harm or damage arising from using the instructions given in this book.

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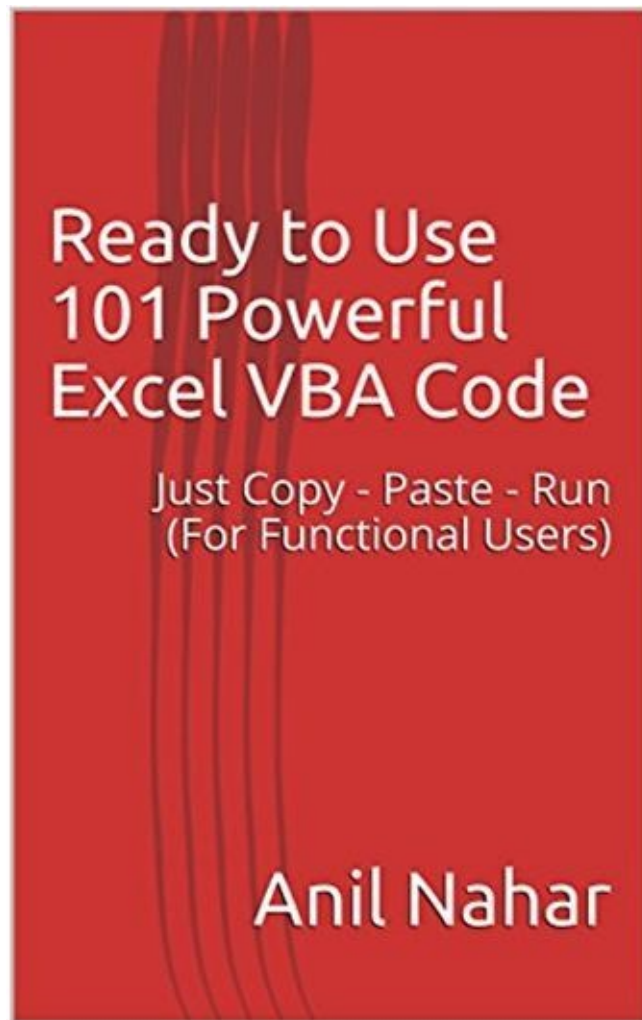
by my beloved wife Manisha Jain, son Master Samkit and youngest daughter Samiksha Jain and Friends. I would also like to thank the millions of visitors to my Smart Excel & Learning website at <http://www.anilnihar.com> for their support and encouragement.

About the Author

Anil Nahar holds a Master degree in Computer Application (MCA), a Bachelor degree in Commerce (B.Com.) and Three year completed C.A. training by ICAI (Institute of Chartered Accountant of India). He is working on real platform with a esteem organization on Functional as well as Technical Support in Excel. He is provided many smart excel training programmes in corporate and appreciated by management. He has been involved in programming for more than 10 years. He created the popular online Smart Learning Tricks Tutorial at www.anilnihar.com in 2017 and since then the web site has attracted millions of visitors and it is one of the top searched VBA Excel websites in many search engines including Google.

Related Book Published

Ready to Use 101 Powerful Excel VBA Code Just Copy - Paste - Run (For Functional Users)



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User-Defined Functions

Excel having large collection of functions in-built . Mostly those functions are sufficient to complete the work. Sometimes, Excel doesn't have a pre-built function that suits a specific need, Well not to worry about it , you can create your own function called User Defined Function or custom Excel function with help of Visual Basic for Applications (VBA). You can access a User Defined Function any time just like any other Excel function.

But the main problem is you should have good knowledge of Excel VBA Programming and need so much time to writing code as desire.

This book helps you to use ready code by just copy paste and enjoy the work. Benefits of this books :

Available readymade function which is very unique and rare. Create new formula in easy way instead of using long formula Without any technical knowledge use the new function Impress your boss with fast working Earn 10000\$ per month by making new project with help of my other book "Ready to Use 101 Powerful Excel VBA Code"

Let's know how to use User define function :

The following steps can be used to create UDFs:

- 1. Open up a new workbook.**
- 2. Open the Visual Basic Editor by pressing Alt+F11.**
- 3. Insert a new module.**

- 4. Copy and Paste the code that makes up the UDF**
- 5. Press Alt+Q to exit the Visual Basic Editor (VBA)**
- 6. Use the function - They will appear in the Paste Function dialog box (Shift+F3) under the "User Defined" category**

If you want to use a UDF in more than one workbook, you can save your functions in your own custom add-in. Simply save the Excel file that contains your VBA functions as an add-in file (.xla). Then load the add-in (click Tools then Add-Ins...).

Awareness: Be careful about using custom functions in spreadsheets that you need to share with others. If they don't have your add-in, the functions will not work when they use the Worksheet.

Text to Column of Cell value by Separator

By Excel Formula 1 2 3 4 5 6 ==> Number of Words

Value Split Text

Anil Kumar Jain Kumar Jain Jain

Anil Kumar Jain Anil Ani An A

Anil Kumar Jain

By UDF

Value Split Text

Anil Kumar Jain Anil Kumar Jain

Function : = TTC(\$A\$11, " ", B2)

Ready Code :

```
Function TTC(Ref_Cell, separator, num_words) As String
```

```
'Smart Function for Split text in column by given separator
```

```
'Smart Excel (www.anilnihar.com)
```

```
'Forumula like =TTC($A$9, " ", 1) ==> Separator space( ) , first number
```

```
Dim T() As String
```

```
T = Split(Ref_Cell, separator) TTC = T(num_words - 1)
```

Extract Bold Value From a Cell

Particulars Extract Bold Value This is My **Function** to extract Bold Value
Function This is My **Function** to **extract Bold** Value Functionextract Bold This is
My Function to extract **Bold Value** My Bold Value

Function : = BoldText(A2)

Ready Code :

```
Function Boldtext(ByVal rngText As Range) As String
'Smart Function for extract text which has Bold
'Smart Excel (www.anilnihar.com)
Boldtext = ""
Dim theCell As Range
Set theCell = rngText.Cells(1, 1)
For I = 1 To Len(theCell.value)
If theCell.Characters(I, 1).Font.FontStyle = "Bold" Then
theChar = theCell.Characters(I, 1).text
Results = Results & theChar
End If
Next I Boldtext = Results
```

Reverse the Cell Text

Particulars

Anil Kumar Jain Smart Excel

anilnihar.com

Reverse Text Function : = reverse(A2)

niaJ ramuK linA
lecxE tramS
moc.rahamlina

Ready Code :

```
Function Reverse(text As String) As String  
'Smart Function for find Reverse text of cell  
'Smart Excel (www.anilnagar.com)  
Reverse = StrReverse(Trim(text)) End Function
```

Find Factorial Number

VALUE Factorial Number

3 6 Function : = reverse(A2)

4 24
5 120
6 720
7 5040
8 40320
9 362880
10 3628800

Ready Code :

Public Function Factorial(num As Integer) As Long 'Smart Function for find
Factorial value

'Smart Excel (www.anilnihar.com)

Dim F_output As Long Dim I As Integer

If num = 0 Then

F_output = 1

ElseIf num = 1 Then

F_output = 1

Else

F_output = 1

For I = 1 To num

F_output = F_output * I Next

End If

Factorial = F_output



Merging Cell value by Separator i.e. Concatenate

First	Middle	Last	Merge	Column	Text
Anil	Kumar	Jain	Anil,Kumar,Jain	Raj	
Kumar	Saxena	Raj	Kumar,Saxena	Minakshi	devi
Surana	Minakshi	devi	Surana	Minakshi,devi	Surana

Function : = concat(A2:C2)

Ready Code :

```
Public Function Concat(rIn As Range) As String
'Smart Function for Concatnate one more column in single column
'Smart Excel (www.anilnihar.com)
'Change comma(,) separator where you need other sign
'Formula like =concat(A2:C2)
For Each r In rIn
Concat = Concat & "," & r.text
```



```
Next r Concat = Mid(Concat, 2)
```

Extract Color Text in from a Cell

Particulars

This is My Function to extract Red Color This is My Function to extract Red Color This is My Function to extract Red Color Extract Red Color Value Red FunctionColor extract

Function : = colortext(A2)

Ready Code :

```
Function ColorText(cellreference As Range) As String  
'Smart Function for extract text which has Red colore  
'Smart Excel (www.anilnihar.com)  
'Alter Font Color instead of vbred which you need
```

```
Dim xOut As String  
Dim xValue As String  
Dim I As Long  
xValue = cellreference.text
```

```
For I = 1 To VBA.Len(xValue)
```

```
If cellreference.Characters(I, 1).Font.Color = vbRed Then xOut = xOut &  
VBA.Mid(xValue, I, 1)  
End If  
Next
```

```
ColorText = xOut
```



Combine Multi-Row in a Cell by Specific Separator

Cell Value Merge

Anil **Anil,Rani,Pooja,Aarti,Sweety,Alok** By comma separator Rani

Pooja **Anil|Rani|Pooja|Aarti|Sweety|Alok||** By Pipe sign separator Aarti

Sweety

Alok

Function : = mergecell(A2:A7,"")

Ready Code :

Option Explicit

```
-----  
Public Function mergecell(rng As Range, delimiter As String) As String  
'Smart Function for Merge data from cell range by given seperator  
'Smart Excel (www.anilnihar.com)  
'Formula =mergecell(A2:A7,"")  
Dim cell As Range  
For Each cell In rng  
mergecell = mergecell & cell.text & delimiter  
Next cell  
' remove the last delimiter mergecell = Left(mergecell, Len(mergecell) -
```

```
Len(delimiter))
```



Extract Hyperlink from a Cell

Address Extract Hyperlink www.anilnihar.com is my website
<http://www.anilnihar.com/>

Function : = Hlink(A2)

Ready Code :

```
Public Function Hlink(rng As Range) As String
'Smart Function for extract hyperlink address which has assigned
'Smart Excel (www.anilnihar.com)
If rng.Cells.Count > 1 Then
Hlink = CVErr(xlErrValue)
Else
```

```
Hlink = rng.Hyperlinks.Item(1).ADDRESS End If
```



Get Unique Value in a Cell by Separator from a Column

Data

COLOR NAME

RED RAJASTHAN YELLOW MP

BLUE DELHI

RED GUJRAT YELLOW JAPAN

RED RAJASTHAN BLUE USA

BLUE INDIA

YELLOW BRAZIL

BLUE DELHI

Repeat Word

Repeat Word

Lookup Value

COLOR NAME

RED RAJASTHAN, GUJRAT YELLOW MP, JAPAN, BRAZIL BLUE

DELHI, USA, INDIA

Repeat Word Repeat Word

Function : = lookupunique(D3,\$A\$3:\$B\$12,2)

Ready Code :

```
Function lookupunique(Lookupvalue As String, LookupRange As Range,  
ColumnNumber As Integer)  
'Smart Function for find Unique value in reference of lookup value in single cell  
'Remove repeating value in column reference  
'Smart Excel (www.anilnihar.com)
```

```
Dim I As Long  
Dim Result As String  
For I = 1 To LookupRange.Columns(1).Cells.Count
```

```
If LookupRange.Cells(I, 1) = Lookupvalue Then  
For J = 1 To I - 1  
If LookupRange.Cells(J, 1) = Lookupvalue Then
```

```
If LookupRange.Cells(J, ColumnNumber) = LookupRange.Cells(I,  
ColumnNumber) Then GoTo Skip  
End If  
End If  
Next J  
Result = Result & " " & LookupRange.Cells(I, ColumnNumber) & ","  
Skip:  
End If  
Next I  
lookupunique = Left(Result, Len(Result) - 1)
```



Get Multiple Value in a Cell by Separator from a Column

Data

COLOR NAME

RED RAJASTHAN YELLOW MP

BLUE DELHI

RED GUJRAT YELLOW JAPAN

RED RAJASTHAN BLUE USA

BLUE INDIA

YELLOW BRAZIL

BLUE DELHI

Repeat Word

Repeat Word

Lookup Value

COLOR NAME

RED RAJASTHAN, GUJRAT, RAJASTHAN YELLOW MP, JAPAN,
BRAZIL

BLUE DELHI, USA, INDIA, DELHI

Repeat Word Repeat Word

Function : = lookupmulti(D3,\$A\$3:\$B\$12,2)

Ready Code :

Function lookupmulti(Lookupvalue As String, LookupRange As Range,
ColumnNumber As Integer)

'Smart Function for find one more value in reference of lookup value in single cell

'Smart Excel (www.anilnihar.com)

Dim I As Long

Dim Result As String

For I = 1 To LookupRange.Columns(1).Cells.Count

If LookupRange.Cells(I, 1) = Lookupvalue Then

Result = Result & " " & LookupRange.Cells(I, ColumnNumber) & "," End If

Next I

lookupmulti = Left(Result, Len(Result) - 1)

Find Prime Number

Value Prime Number

5 TRUE

3 TRUE

6 FALSE 11 TRUE 12 FALSE 18 FALSE

Function : = Prime(A2)

Ready Code :

```
Public Function Prime(num As Integer) As Boolean  
'Smart Function for find Prime Number  
'Smart Excel (www.anilnihar.com)
```

```
Dim I As Integer
```

```
I = 2
```

```
Prime = True
```

```
Do
```

```
If num / I = Int(num / I) Then Prime = False
```

```
End If
```

```
I = I + 1
```

```
Loop While I < num And Prime = True
```

Find Value of Location i.e. Row & Column No.

COLOR NAME

RED RAJASTHAN YELLOW MP

BLUE DELHI

RED GUJRAT YELLOW JAPAN

RED RAJASTHAN BLUE USA

BLUE INDIA

YELLOW BRAZIL

BLUE DELHI

Function Value of Location

Row

Output Num Column Num

JAPAN 6 2

RAJASTHAN 7 2

MP 4 2

Excel

Formula GUJRAT JAPAN

MP

+INDIRECT(ADDRESS(F3,G3))

Function : = valueloc(F3,G3)

Ready Code :

Function Valueloc(row As Integer, col As Integer)

'Smart Function for find value of given row and column of value

'Smart Excel (www.anilnihar.com)

'formula = valueloc(6,2) Valueloc = ActiveSheet.Cells(row, col)

Convert Formula to Text

COLOR NAME

RED RAJASTHAN YELLOW MP

BLUE DELHI

RED GUJRAT YELLOW JAPAN

RED RAJASTHAN BLUE USA

BLUE INDIA

YELLOW BRAZIL

BLUE DELHI

Function Value of Location Column

Output Row Num Num

GUJRAT 6 2

JAPAN 7 2

MP 4 2

Formula Show Excel

Formula GUJRAT JAPAN

MP

=+INDIRECT(ADDRESS(F3,G3)) =+INDIRECT(ADDRESS(F4,G4))

=+INDIRECT(ADDRESS(F5,G5))

Function : =formulaview(D15)

Ready Code :

Function Formulaview(Rng As Range)

'Smart Function for show formula in text

'Smart Excel (www.anilnihar.com) Formulaview = Rng.Formula

Show Comments into Text in a Cell

Address Extract Hyperlink www.anilnihar.com is my website
<http://www.anilnihar.com/>

Comments

anilnihar:

Website provides freely content to users a lot of tricks of study

Function : = commentsintext(A2)

Ready Code :

```
Function Commentsintext(pRng As Range) As String  
'Smart Function for convert comment into text  
'Smart Excel (www.anilnihar.com)  
If Not pRng.Comment Is Nothing Then  
Commentsintext = pRng.Comment.text End If
```

Show Active Worksheet Name in a Cell

Function =+sheetname() **Sheet Name**

==> Number to Word

Amount In English (Words)

525 Five Hundred Twenty Five Dollars and No Cents

400 Four Hundred Dollars and No Cents

232.45 Two Hundred Thirty Two Dollars and Forty Five Cents

150465 One Hundred Fifty Thousand Four Hundred Sixty Five Dollars and No Cents

Function : = sheetname()

Ready Code :

Function sheetname()

'Smart Function for Show current sheetname

'Smart Excel (www.anilnihar.com) sheetname = ActiveSheet.Name

Total of Bold Value in a range

Value Value Value Value Value

65 91 18 89 45

45 **25 74** 94 18

32 58 91 80 93

45 11 **36** 94 20

65 55 23 52 15

98 82 64 83 36

67 36 51 35 64

Total of Bold

Value 135

Function : = sumboldvalue(A2:E8)

Ready Code :

```
Function SumBoldValue(WorkRng As Range)
'Smart Function for Total of Bold value in range
'Smart Excel (www.anilnihar.com)
Dim Rng As Range
Dim xSum As Long
For Each Rng In WorkRng
If Rng.Font.Bold Then
xSum = xSum + Rng.value
End If
Next SumBoldValue = xSum
```

Count of Bold Value of in a Range

Value Value Value Value Value

65 69 82 73 83

45 98 95 38 93

32 72 71 43 96

45 43 44 92 61

65 34 14 96 55

98 90 56 81 55

67 47 18 46 **11**

Count No. of Bold Value 15

Function : = countbold(A2:E8)

Ready Code :

```
Function CountBold(WorkRng As Range)
'Smart Function for to Count of Bold value in range
'Smart Excel (www.anilnihar.com)
Dim Rng As Range
Dim xCount As Long
For Each Rng In WorkRng
If Rng.Font.Bold Then
xCount = xCount + 1
End If
Next CountBold = xCount
```

Extract Word from a Cell or Convert Text to Column

Position of Word 2 8 2nd 8th Text Word Word Ready to Use Powerful VBA Code
is My First Book Published to My User Define Function Ready Code is Second
Book Define Book

Function : = extractword(A3,2)

Ready Code :

```
Function ExtractWord(Source As String, Position As Integer)
'Smarcode for extract the second, third or any nth word from the text string
'Smart Excel (www.anilnihar.com)
Dim arr() As String
arr = VBA.Split(Source, " ")
xCount = UBound(arr)
If xCount < 1 Or (Position - 1) > xCount Or Position < 0 Then
ExtractWord = ""
Else
ExtractWord = arr(Position - 1) End If
```

Find Number of Words in a Cell

Numbers of Text Words Ready to Use Powerful VBA Code is My First Book
Published 11 User Define Function Ready Code is Second Book 8

Function : = =wordcount(A2)

Ready Code :

Function WordCount(rng As Range) As Integer

'Smart Function for Counts total words in a cell

'Smart Excel (www.anilnihar.com)

WordCount = UBound(Split(rng.value, " "), 1) + 1 End Function

Extract Text and Number in Separate Cell from a Cell

Data Extract Numbers Extract Text Only Only

Total Sale of My First Book 100000 Unit

Book will be published in 10 Unit in next year

Total Sale of My First

Book Unit 100000

Book will be published

in Unit in next year 10

Function : =Extractnum(A2,FALSE)
For Text use False
=Extractnum(A2,True) For Number
use True

Ready Code :

```
Public Function ExtractNum(pWorkRng As Range, pIsNumber As Boolean) As String
```

```
'Smartcode for separate text and numbers into different cells from one cell
```

```
'Smart Excel (www.anilnihar.com)
```

```
Dim xLen As Long
```

```
Dim xStr As String
```

```
xLen = VBA.Len(pWorkRng.value)
```

```
For I = 1 To xLen
```

```
xStr = VBA.Mid(pWorkRng.value, I, 1)
```

```
If ((VBA.IsNumeric(xStr) And pIsNumber) Or (Not (VBA.IsNumeric(xStr)) And Not (pIsNumber))) Then
```

```
ExtractNum = ExtractNum + xStr
```

```
End If Next
```



HTML Text of Bold/Italic/Underline of Cell Data

Data HTML Text

Total Sale of My First Book 100000 Unit

Total Sale of My First Book 100000 Unit

Book will be published in 10 Unit in **next year**

Book will be published in 10 Unit in **next year**

Function : = GETHTMLFORMATTEDSTRING(A

Ready Code :

```
Public Function getHTMLFormattedString(r As Range) As String
```

```
isBold = False
```

```
isItalic = False
```

```
isUnderlined = False
```

```
s = ""
```

```
cCount = 0
```

```
On Error Resume Next
```

```
cCount = r.Characters.Count On Error GoTo 0
```

```
If cCount > 0 Then
```

```
For I = 1 To cCount
```

```
Set c = r.Characters(I, 1)
```

```
If isUnderlined And c.Font.Underline = xlUnderlineStyleNone Then isUnderlined  
= False
```

```
s = s & "</u>"
```

```
End If
```

```
If isItalic And Not c.Font.Italic Then isItalic = False
```

```
s = s & "</i>"
```

```
End If
```

```
If isBold And Not c.Font.Bold Then isBold = False
```

```
s = s & "</b>"
```



End If

```
If c.Font.Bold And Not isBold Then  
isBold = True  
s = s + "<b>"
```

End If

```
If c.Font.Italic And Not isItalic Then  
isItalic = True  
s = s + "<i>"
```

End If

```
If Not (c.Font.Underline = xlUnderlineStyleNone) And Not isUnderlined Then  
isUnderlined = True  
s = s + "<u>"
```

```
End If  
s = s & c.text
```

```
If I = cCount Then  
If isUnderlined Then s = s & "</u>" If isItalic Then s = s & "</i>"  
If isBold Then s = s & "</b>"
```

```
End If  
Next I
```

```
Else  
s = r.text  
If r.Font.Bold Then s = "<b>" & s & "</b>"  
If r.Font.Italic Then s = "<i>" & s & "</i>"  
If Not (r.Font.Underline = xlUnderlineStyleNone) Then s = "<u>" & s & "</u>"
```

End If

getHTMLFormattedString = s



Extract Unique Character from a Cell

Data Unique Character This Function Extract Unique Character This
FunctoExtraUqeC

Function : = Uniquechar(A2)

Ready Code :

```
Function Uniquechar(pWorkRng As Range) As String
'Smartcode for Extract Unique Character i.e. Remove duplicate character in a cell
'Smart Excel (www.anilnihar.com)
Dim xValue As String
Dim xChar As String
Dim xOutValue As String
Set xDic = CreateObject("Scripting.Dictionary")
xValue = pWorkRng.value
For I = 1 To VBA.Len(xValue)
xChar = VBA.Mid(xValue, I, 1)
If xDic.Exists(xChar) Then
Else
xDic(xChar) = ""
xOutValue = xOutValue & xChar
End If
```

Next Uniquechar = xOutValue



Delete Duplicate Words in a Cell by Separator Space or any

Data Delete Duplicate Words

First Value is First Unique First Value is Unique and Second and Second Value
Remove Remove

Function : = delduplicate(A2)

Ready Code :

```
Function Delduplicate(txt As String, Optional delim As String = " ") As String
'Smart Function for delete duplicate words from a cell by separator of space
'Smart Excel (www.anilnihar.com)
'Separator can change anything instead of " " from parameter
Dim x
With CreateObject("Scripting.Dictionary")
.CompareMode = vbTextCompare
For Each x In Split(txt, delim)
If Trim(x) <> "" And Not .exists(Trim(x)) Then .Add Trim(x), Nothing
Next
```

```
If .Count > 0 Then Delduplicate = Join(.keys, delim) End With
```



Find Keyword from a list in a Cell

Keywords List

Excel

Computer India

Anil

Book

Data

My Excel is Very

Good

Anil live in India

I Published a book I have own computer Find Keywords

Excel

India, Anil Book

Computer

Function : = listvalue(\$A\$1:\$A\$6,C2)

Ready Code :

```
Function Listvalue(Words As Range, strText As Range)
```

```
'Smart Function for find words form a list
```

```
'Smart Excel (www.anilnihar.com)
```

```
Dim c As Range
```

```
For Each c In Words
```

```
If InStr(1, strText, c, 1) > 0 Then Listvalue = Listvalue & ", " & c
```

```
Next c
```

```
If Listvalue = 0 Then
```

```
Listvalue = "-"
```

```
Else
```

```
Listvalue = Right(Listvalue, Len(Listvalue) - 2) End If
```



Convert Number to Words (Dollars and Cents)

Amount In English (Words)

525 Five Hundred Twenty Five Dollars and No Cents

400 Four Hundred Dollars and No Cents

232.45 Two Hundred Thirty Two Dollars and Forty Five Cents

150465 One Hundred Fifty Thousand Four Hundred Sixty Five Dollars and No Cents

Function : = Numtoword(A2)

Ready Code :

Option Explicit

' Main Function

```
Function Numtoword(ByVal MyNumber)
Dim Dollars, Cents, Temp
Dim DecimalPlace, Count
ReDim Place(9) As String
Place(2) = " Thousand "
Place(3) = " Million "
Place(4) = " Billion "
Place(5) = " Trillion "
' String representation of amount.
MyNumber = Trim(str(MyNumber))
' Position of decimal place 0 if none.
DecimalPlace = InStr(MyNumber, ".")
' Convert cents and set MyNumber to dollar amount.
If DecimalPlace > 0 Then Cents = GetTens(Left(Mid(MyNumber, DecimalPlace + 1) & _
"00", 2))
MyNumber = Trim(Left(MyNumber, DecimalPlace - 1))
End If
Count = 1
Do While MyNumber <> ""
Temp = GetHundreds(Right(MyNumber, 3))
If Temp <> "" Then Dollars = Temp & Place(Count) & Dollars
If Len(MyNumber) > 3 Then
MyNumber = Left(MyNumber, Len(MyNumber) - 3)
Else
MyNumber = ""
End If
Count = Count + 1
Loop
Select Case Dollars
```

```

Case ""
Dollars = "No Dollars"
Case "One"
Dollars = "One Dollar"
Case Else
Dollars = Dollars & " Dollars"
End Select
Select Case Cents
Case "" Cents = " and No Cents"
Case "One"
Cents = " and One Cent"
Case Else
Cents = " and " & Cents & " Cents"
End Select
Numtoword = Dollars & Cents
End Function
'*****
' Converts a number from 100-999 into text *
'*****

Function GetHundreds(ByVal MyNumber)
Dim Result As String
If Val(MyNumber) = 0 Then Exit Function
MyNumber = Right("000" & MyNumber, 3)
' Convert the hundreds place.
If Mid(MyNumber, 1, 1) <> "0" Then
Result = GetDigit(Mid(MyNumber, 1, 1)) & " Hundred "
End If
' Convert the tens and ones place.
If Mid(MyNumber, 2, 1) <> "0" Then
Result = Result & GetTens(Mid(MyNumber, 2)) Else
Result = Result & GetDigit(Mid(MyNumber, 3))
End If
GetHundreds = Result
End Function
'*****
' Converts a number from 10 to 99 into text. *
'*****

Function GetTens(TensText)
Dim Result As String

```

```

Result = "" ' Null out the temporary function value.
If Val(Left(TensText, 1)) = 1 Then ' If value between 10-19...
Select Case Val(TensText)
Case 10: Result = "Ten"
Case 11: Result = "Eleven"
Case 12: Result = "Twelve"
Case 13: Result = "Thirteen"
Case 14: Result = "Fourteen"
Case 15: Result = "Fifteen"
Case 16: Result = "Sixteen"
Case 17: Result = "Seventeen"
Case 18: Result = "Eighteen"
Case 19: Result = "Nineteen"
Case Else End Select
Else ' If value between 20-99...
Select Case Val(Left(TensText, 1))
Case 2: Result = "Twenty "
Case 3: Result = "Thirty "
Case 4: Result = "Forty "
Case 5: Result = "Fifty "
Case 6: Result = "Sixty "
Case 7: Result = "Seventy "
Case 8: Result = "Eighty "
Case 9: Result = "Ninety "
Case Else
End Select
Result = Result & GetDigit _
(Right(TensText, 1)) ' Retrieve ones place.
End If
GetTens = Result
End Function

```

```

'*****

```

```

' Converts a number from 1 to 9 into text. *

```

```

'*****

```

```

Function GetDigit(Digit)
Select Case Val(Digit)
Case 1: GetDigit = "One"
Case 2: GetDigit = "Two"
Case 3: GetDigit = "Three" Case 4: GetDigit = "Four"

```

```
Case 5: GetDigit = "Five"  
Case 6: GetDigit = "Six"  
Case 7: GetDigit = "Seven"  
Case 8: GetDigit = "Eight"  
Case 9: GetDigit = "Nine"  
Case Else: GetDigit = ""  
End Select  
End Function
```