

Numbers to In Words

Converting numbers to in words string, most of the reporting systems like crystal reports converts number to in words string according to USA standards which does not support Lakh. For example 125000.00 will be **One Hundred Twenty Five Thousand**. According to Indian standards it is **One Lakh Twenty Five Thousand**.

Here is function to convert the number to in words as per the Indian system, this function is written in for VB.NET form application just copy the function and call the function(**NumberInWords**) with Number to be converted; the function returns in words string as per Indian standards.

Function NumberInWords(num As String)

'Constants are Defined

Dim digit(100) As String

digit(0) = ""

digit(1) = "One "

digit(2) = "Two "

digit(3) = "Three "

digit(4) = "Four "

digit(5) = "Five "

digit(6) = "Six "

digit(7) = "Seven "

digit(8) = "Eight "

digit(9) = "Nine "

digit(10) = "Ten "

digit(11) = "Eleven "

digit(12) = "Twelve "

digit(13) = "Thirteen "

digit(14) = "Fourteen "

digit(15) = "Fifteen "

digit(16) = "Sixteen "

digit(17) = "Seventeen "

digit(18) = "Eighteen "

digit(19) = "Nineteen "

digit(20) = "Twenty "

digit(30) = "Thirty "

digit(40) = "Fourty "

digit(50) = "Fifty "

digit(60) = "Sixty "

digit(70) = "Seventy "

digit(80) = "Eighty "

digit(90) = "Ninty "

digit(100) = "Hundred "

Dim tt(5) As String

tt(2) = "Thousand "

tt(3) = "Lakh "

tt(4) = "Crore "

tt(5) = "Hundred Crore "

'Separating the Whole Number and Digits

Dim nn As String

Dim dd As String = ""

nn = Math.Round(Val(num), 2)

If InStr(nn, ".") <> 0 Then

dd = Mid(nn, InStr(nn, ".") + 1)

nn = Mid(nn, 1, InStr(nn, ".") - 1)

End If

'Variable nn stores the whole number and dd stores the digits

'Finding the Word for numbers

Dim x As Integer

Dim y As Integer = 0

x = nn.Length - 1

Dim z As String

Dim str As String = ""

Dim str1 As String = ""

If x > 1 Then

While (x > -1)

'First Loop Last two digits of Number is evaluated(ones and Tens)

If y = 0 Then

z = Mid(nn, x, 2)

If Val(z) < 21 And Val(z) > 0 Then

str = digit(Val(z))

Elseif Val(z) > 0 Then

*str = digit(Val(z(0))) * 10*

str = str & digit(Val(z(1)))

End If

x = x - 1

End If

'Second Loop 3rd digits of Number is evaluated(Hundred)

If y = 1 Then

z = Mid(nn, x, 1)

If Val(z) <> 0 Then

str = digit(Val(z)) & "Hundred " & str

End If

x = x - 2

End If

'Subsequent Loop Next two digits sequence of Number is evaluated(Thousands,Lakhs,Crore,etc)

If y > 1 Then

If x <> 0 Then

z = Mid(nn, x, 2)

If Val(z) < 21 And Val(z) > 0 Then

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        str = digit(Val(z)) & tt(y) & str
    ElseIf Val(z) > 0 Then
        str1 = digit(Val(z(0)) * 10)
        str = str1 & digit(Val(z(1))) & tt(y) & str
    End If
    x = x - 2
Else
    z = Mid(nn, 1, 1)
    If Val(z) < 21 And Val(z) > 0 Then
        str = digit(Val(z)) & tt(y) & str
    ElseIf Val(z) > 0 Then
        str1 = digit(Val(z(0)) * 10)
        str = str1 & digit(Val(z(1))) & tt(y) & str
    End If
    x = -1
End If
End If
y = y + 1
End While
Else

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    If Val(nn) < 21 And Val(nn) > 0 Then
        str = digit(Val(nn))
    ElseIf Val(nn) > 0 Then
        str = digit(Val(nn(0)) * 10)
        str = str & digit(Val(nn(1)))
    End If
    'str = digit(nn)
End If
If str = "" Then
    str = "Zero "
End If
str = str & "Rupees "

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'Digits are evaluated(Paise)
If Val(dd) > 0 Then
    If dd.Length = 1 Then
        z = Val(dd) * 10
    Else
        z = dd
    End If
    If Val(z) < 21 And Val(z) > 0 Then
        str = str & "and " & digit(Val(z)) & "Paise"
    ElseIf Val(z) > 0 Then
        str1 = digit(Val(z(0)) * 10)

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        str = str & "and " & str1 & digit(Val(z(1))) & "Paise"  
    End If  
End If  
  
'Word string is returned  
NumberInWords = str  
End Function
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This function is written VB.NET windows forms project, for VB.NET projects you can use as is; and for other programming languages you can generate the function using similar logic.