

## How to calculate formula in cell in VB.NET using ByteScout Spreadsheet SDK

### Tutorial on how to calculate formula in cell in VB.NET

The sample shows steps and algorithm of how to calculate formula in cell and how to make it work in your VB.NET application. Want to calculate formula in cell in your VB.NET app? ByteScout Spreadsheet SDK is designed for it. ByteScout Spreadsheet SDK is the SDK to create, read, modify and calculate spreadsheets. Formula calculations are supported, import and export to and from JSON, CSV, XML, databases, arrays.

You will save a lot of time on writing and testing code as you may just take the VB.NET code from ByteScout Spreadsheet SDK for calculate formula in cell below and use it in your application. Just copy and paste the code into your VB.NET application's code and follow the instruction. Enjoy writing a code with ready-to-use sample codes in VB.NET.

Trial version of ByteScout Spreadsheet SDK is available for free. Source code samples are included to help you with your VB.NET app.

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[visit www.Bytescout.com](http://www.Bytescout.com)

Source Code Files:

```

Imports System
Imports System.Collections.Generic
Imports System.Text
Imports System.IO
Imports System.Diagnostics

Imports Bytescout.Spreadsheet

Module Module1
    Sub Main()

        ' Create new spreadsheet
        Dim spreadsheet As New Spreadsheet()

        ' Add new worksheet
        Dim sheet As Worksheet = spreadsheet.Workbook.Worksheets.Add()

        ' Get decimal separator. Decimal separator depends from locale
        Dim dsep As String = spreadsheet.Workbook.Locale.NumberFormat.C

        ' Get list separator. List separator depends from locale.
        Dim lsep As String = spreadsheet.Workbook.Locale.TextInfo.ListS

        ' Set starting row
        Dim rowNumber As Integer = 1

        ' Example on SIN() function in formula
        sheet.Cell(rowNumber, 0).Value = "SIN(30)"
        sheet.Cell(rowNumber, 1).Value = "=SIN(30)"

        rowNumber += 2

        ' Example on COS() function in formula
        sheet.Cell(rowNumber, 0).Value = "COS(30)"
        sheet.Cell(rowNumber, 1).Value = "=COS(30)"

        rowNumber += 2

        ' Example on TAN() function in formula
        sheet.Cell(rowNumber, 0).Value = "TAN(30)"
        sheet.Cell(rowNumber, 1).Value = "=TAN(30)"

        rowNumber += 2

        ' Example on ATAN() function in formula
        sheet.Cell(rowNumber, 0).Value = "ATAN(0" + dsep + "5)"
        sheet.Cell(rowNumber, 1).Value = "=ATAN(0" + dsep + "5)"

        rowNumber += 2

        ' Example on ATAN2() function in formula
        sheet.Cell(rowNumber, 0).Value = "ATAN2(0" + dsep + "3" + lsep
        sheet.Cell(rowNumber, 1).Value = "=ATAN2(0" + dsep + "3" + lsep

        rowNumber += 2
    
```

```
' Example on ASIN() function in formula
sheet.Cell(rowNumber, 0).Value = "ASIN(0" + dsep + "5)"
sheet.Cell(rowNumber, 1).Value = "=ASIN(0" + dsep + "5)"
```

```
rowNumber += 2
```

```
' Example on ACOS() function in formula
sheet.Cell(rowNumber, 0).Value = "ACOS(0" + dsep + "5)"
sheet.Cell(rowNumber, 1).Value = "=ACOS(0" + dsep + "5)"
```

```
rowNumber += 2
```

```
' Example on EXP() function in formula
sheet.Cell(rowNumber, 0).Value = "EXP(5)"
sheet.Cell(rowNumber, 1).Value = "=EXP(5)"
```

```
rowNumber += 2
```

```
' Example on SQRT() function in formula
sheet.Cell(rowNumber, 0).Value = "SQRT(5)"
sheet.Cell(rowNumber, 1).Value = "=SQRT(5)"
```

```
rowNumber += 2
```

```
' Example on LN() function in formula
sheet.Cell(rowNumber, 0).Value = "LN(5)"
sheet.Cell(rowNumber, 1).Value = "=LN(5)"
```

```
rowNumber += 2
```

```
' Example on LOG10() function in formula
sheet.Cell(rowNumber, 0).Value = "LOG10(5)"
sheet.Cell(rowNumber, 1).Value = "=LOG10(5)"
```

```
rowNumber += 2
```

```
' Example on SUM() function in formula
sheet.Cell(rowNumber, 0).Value = "SUM(5" + lsep + "3)"
sheet.Cell(rowNumber, 1).Value = "=SUM(5" + lsep + "3)"
```

```
rowNumber += 2
```

```
' Example on PRODUCT() function in formula
sheet.Cell(rowNumber, 0).Value = "PRODUCT(5" + lsep + "3)"
sheet.Cell(rowNumber, 1).Value = "=PRODUCT(5" + lsep + "3)"
```

```
rowNumber += 2
```

```
' Example on VAR() function in formula
sheet.Cell(rowNumber, 0).Value = "VAR(5" + lsep + "3)"
sheet.Cell(rowNumber, 1).Value = "=VAR(5" + lsep + "3)"
```

```
rowNumber += 2
```

```
' Example on VARP() function in formula
sheet.Cell(rowNumber, 0).Value = "VARP(5" + lsep + "3)"
sheet.Cell(rowNumber, 1).Value = "=VARP(5" + lsep + "3)"
```

```
rowNumber += 2
```

```

' Example on STDEV() function in formula
sheet.Cell(rowNumber, 0).Value = "STDEV(5" + lsep + "3)"
sheet.Cell(rowNumber, 1).Value = "=STDEV(5" + lsep + "3)"

rowNumber += 2

' Example on STDEVP() function in formula
sheet.Cell(rowNumber, 0).Value = "STDEVP(5" + lsep + "3)"
sheet.Cell(rowNumber, 1).Value = "=STDEVP(5" + lsep + "3)"

rowNumber += 2

' Example on AVERAGE() function in formula
sheet.Cell(rowNumber, 0).Value = "AVERAGE(50" + lsep + "30)"
sheet.Cell(rowNumber, 1).Value = "=AVERAGE(50" + lsep + "30)"

rowNumber += 2

' Example on MIN() function in formula
sheet.Cell(rowNumber, 0).Value = "MIN(50" + lsep + "30)"
sheet.Cell(rowNumber, 1).Value = "=MIN(50" + lsep + "30)"

rowNumber += 2

' Example on MAX() function in formula
sheet.Cell(rowNumber, 0).Value = "MAX(50" + lsep + "30)"
sheet.Cell(rowNumber, 1).Value = "=MAX(50" + lsep + "30)"

rowNumber += 2

' Example on PI() function in formula
sheet.Cell(rowNumber, 0).Value = "PI()"
sheet.Cell(rowNumber, 1).Value = "=PI()"

rowNumber += 2

' Example on ABS() function in formula
sheet.Cell(rowNumber, 0).Value = "ABS(-5)"
sheet.Cell(rowNumber, 1).Value = "=ABS(-5)"

rowNumber += 2

' Example on RAND() function in formula
sheet.Cell(rowNumber, 0).Value = "RAND()"
sheet.Cell(rowNumber, 1).Value = "=RAND()"

rowNumber += 2

' Example on MOD() function in formula
sheet.Cell(rowNumber, 0).Value = "MOD(10" + dsep + "8" + lsep +
sheet.Cell(rowNumber, 1).Value = "=MOD(10" + dsep + "8" + lsep +

rowNumber += 2

' Example on INT() function in formula
sheet.Cell(rowNumber, 0).Value = "INT(10" + dsep + "8)"
sheet.Cell(rowNumber, 1).Value = "=INT(10" + dsep + "8)"

rowNumber += 2

```

```

' Example on SIGN() function in formula
sheet.Cell(rowNumber, 0).Value = "SIGN(10" + dsep + "8)"
sheet.Cell(rowNumber, 1).Value = "=SIGN(10" + dsep + "8)"

rowNumber += 2

' Example on ROUND() function in formula
sheet.Cell(rowNumber, 0).Value = "ROUND(10" + dsep + "862456"
sheet.Cell(rowNumber, 1).Value = "=ROUND(10" + dsep + "862456"

rowNumber += 2

' Example on RADIANS() function in formula
sheet.Cell(rowNumber, 0).Value = "RADIANS(180)"
sheet.Cell(rowNumber, 1).Value = "=RADIANS(180)"

rowNumber += 2

' Example on DEGREES() function in formula
sheet.Cell(rowNumber, 0).Value = "DEGREES(3" + dsep + "14)"
sheet.Cell(rowNumber, 1).Value = "=DEGREES(3" + dsep + "14)"

rowNumber += 2

' Example on LEN() function in formula
sheet.Cell(rowNumber, 0).Value = "LEN("Bytescout")"
sheet.Cell(rowNumber, 1).Value = "=LEN("Bytescout")"

rowNumber += 2

' Example on MID() function in formula
sheet.Cell(rowNumber, 0).Value = "MID("Bytescout" + lsep +
sheet.Cell(rowNumber, 1).Value = "=MID("Bytescout" + lsep +

rowNumber += 2

' Example on NOW() function in formula
sheet.Cell(rowNumber, 0).Value = "NOW()"
sheet.Cell(rowNumber, 1).Value = "=NOW()"

rowNumber += 2

' Example on DATE() function in formula
sheet.Cell(rowNumber, 0).Value = "DATE(2009" + lsep + "1" + lsep
sheet.Cell(rowNumber, 1).Value = "=DATE(2009" + lsep + "1" + lsep

rowNumber += 2

' Example on TIME() function in formula
sheet.Cell(rowNumber, 0).Value = "TIME(1" + lsep + "1" + lsep
sheet.Cell(rowNumber, 1).Value = "=TIME(1" + lsep + "1" + lsep

rowNumber += 2

' Example on SECOND() function in formula
sheet.Cell(rowNumber, 0).Value = "SECOND("18:45:02")"
sheet.Cell(rowNumber, 1).Value = "=SECOND("18:45:02")"

rowNumber += 2

```

```
' Example on MINUTE() function in formula
sheet.Cell(rowNumber, 0).Value = "MINUTE("18:45:02")"
sheet.Cell(rowNumber, 1).Value = "=MINUTE("18:45:02")"
```

```
rowNumber += 2
```

```
' Example on HOUR() function in formula
sheet.Cell(rowNumber, 0).Value = "HOUR("18:45:02")"
sheet.Cell(rowNumber, 1).Value = "=HOUR("18:45:02")"
```

```
rowNumber += 2
```

```
' Example on YEAR() function in formula
sheet.Cell(rowNumber, 0).Value = "YEAR(NOW())"
sheet.Cell(rowNumber, 1).Value = "=YEAR(NOW())"
```

```
rowNumber += 2
```

```
' Example on MONTH() function in formula
sheet.Cell(rowNumber, 0).Value = "MONTH(NOW())"
sheet.Cell(rowNumber, 1).Value = "=MONTH(NOW())"
```

```
rowNumber += 2
```

```
' Example on DAY() function in formula
sheet.Cell(rowNumber, 0).Value = "DAY(NOW())"
sheet.Cell(rowNumber, 1).Value = "=DAY(NOW())"
```

```
rowNumber += 2
```

```
' Example on WEEKDAY() function in formula
sheet.Cell(rowNumber, 0).Value = "WEEKDAY(NOW())"
sheet.Cell(rowNumber, 1).Value = "=WEEKDAY(NOW())"
```

```
rowNumber += 2
```

```
' Example on FALSE in formula
sheet.Cell(rowNumber, 0).Value = "FALSE"
sheet.Cell(rowNumber, 1).Value = "=FALSE"
```

```
rowNumber += 2
```

```
' Example on TRUE in formula
sheet.Cell(rowNumber, 0).Value = "TRUE"
sheet.Cell(rowNumber, 1).Value = "=TRUE"
```

```
rowNumber += 2
```

```
' Example on AND() function in formula
sheet.Cell(rowNumber, 0).Value = "AND"
sheet.Cell(rowNumber, 1).Value = "=AND(10>1" + lsep + "10<100)"
```

```
rowNumber += 2
```

```
' Example on OR() function in formula
sheet.Cell(rowNumber, 0).Value = "OR(10>1" + lsep + "10<100)"
sheet.Cell(rowNumber, 1).Value = "=OR(10>1" + lsep + "10<100)"
```

```
rowNumber += 2
```

```
' Example on NOT() function in formula
sheet.Cell(rowNumber, 0).Value = "NOT(1+1=2)"
sheet.Cell(rowNumber, 1).Value = "=NOT(1+1=2)"
```

```
rowNumber += 2
```

```
' Example on ISNA() function in formula
sheet.Cell(rowNumber, 0).Value = "ISNA(NA())"
sheet.Cell(rowNumber, 1).Value = "=ISNA(NA())"
```

```
rowNumber += 2
```

```
' Example on NA() function in formula
sheet.Cell(rowNumber, 0).Value = "NA()"
sheet.Cell(rowNumber, 1).Value = "=NA()"
```

```
rowNumber += 2
```

```
' Example on ISERROR() function in formula
sheet.Cell(rowNumber, 0).Value = "ISERROR(1/0)"
sheet.Cell(rowNumber, 1).Value = "=ISERROR(1/0)"
```

```
rowNumber += 2
```

```
' Example on ROW() function in formula
sheet.Cell(rowNumber, 0).Value = "ROW()"
sheet.Cell(rowNumber, 1).Value = "=ROW()"
```

```
rowNumber += 2
```

```
' Example on COLUMN() function in formula
sheet.Cell(rowNumber, 0).Value = "COLUMN()"
sheet.Cell(rowNumber, 1).Value = "=COLUMN()"
```

```
rowNumber += 2
```

```
' Example on COUNT() function in formula
sheet.Cell(rowNumber, 0).Value = "COUNT(B1:B10)"
sheet.Cell(rowNumber, 1).Value = "=COUNT(B1:B10)"
```

```
rowNumber += 2
```

```
' Example on COUNTA() function in formula
sheet.Cell(rowNumber, 0).Value = "COUNTA(B1:B10)"
sheet.Cell(rowNumber, 1).Value = "=COUNTA(B1:B10)"
```

```
rowNumber += 2
```

```
' Example on COUNTA() function in formula
sheet.Cell(rowNumber, 0).Value = "IF(1=1" + lsep + "TRUE" + lsep
sheet.Cell(rowNumber, 1).Value = "=IF(1=1" + lsep + "TRUE" + lsep
```

```
rowNumber += 2
```

```
' Example on COUNTA() function in formula
sheet.Cell(rowNumber, 0).Value = "NPV(10%" + lsep + "10000" + lsep
sheet.Cell(rowNumber, 1).Value = "=NPV(10%" + lsep + "10000" + lsep
```

Try

```
System.IO.File.Delete("output.xls")
```

```
        Catch ex As Exception
        End Try

        spreadsheet.SaveAs("output.xls")

        spreadsheet.Close()

        System.Diagnostics.Process.Start("output.xls")

    End Sub
End Module
```

---

#### VIDEO

[https://www.youtube.com/watch?v=nm\\_7I0PN1TY](https://www.youtube.com/watch?v=nm_7I0PN1TY)

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