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How to calculate formula in cell with spreadsheet sdk in C# and ByteScout Barcode Suite

Continuous learning is a crucial part of computer science and this tutorial shows how to calculate formula in cell with spreadsheet sdk in C#

On this page you will learn from code samples for programming in C#.Writing of the code to calculate formula in cell with spreadsheet sdk in C# can be executed by programmers of any level using ByteScout Barcode Suite. ByteScout Barcode Suite: the set that includes three different SDK products to generate barcodes, read barcodes and read and write spreadsheets: Barcode SDK, Barcode Reader SDK and Spreadsheet SDK. It can calculate formula in cell with spreadsheet sdk in C#.

Want to save time? You will save a lot of time on writing and testing code as you may just take the C# code from ByteScout Barcode Suite for calculate formula in cell with spreadsheet sdk below and use it in your application. Just copy and paste the code into your C# application's code and follow the instructions. Check C# sample code samples to see if they respond to your needs and requirements for the project.

If you want to try other source code samples then the free trial version of ByteScout Barcode Suite is available for download from our website. Just try other source code samples for C#.

Source Code Files:

Program.cs

```
using System;
using System.Collections.Generic;
using System.Text;
using System.IO;

using Bytescout.Spreadsheet;

namespace Calculations
{
    class Program
    {
        static void Main(string[] args)
        {
            // Create new spreadsheet
            Spreadsheet spreadsheet = new Spreadsheet();

            // Add new worksheet
            Worksheet sheet = spreadsheet.Workbook.Worksheets.Add();

            // Get decimal separator. Decimal separator depends from locale.
            string dsep = spreadsheet.Workbook.Locale.NumberFormat.CurrencyDecimalSepa

            // Get list separator. List separator depends from locale.
            string lsep = spreadsheet.Workbook.Locale.TextInfo.ListSeparator;

            // Set starting row
            int rowNumber = 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 + "0.1)";
            sheet.Cell(rowNumber, 1).Value = "=ATAN2(0" + dsep + "3" + lsep + "0.1)";
```

```
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 + "2)";
sheet.Cell(rowNumber, 1).Value = "=MOD(10" + dsep + "8" + lsep + "2)";

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" + lsep + "4)"
            sheet.Cell(rowNumber, 1).Value = "=ROUND(10" + dsep + "862456" + lsep + "4

            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 + "5" + lsep +
            sheet.Cell(rowNumber, 1).Value = "=MID(\"Bytescout\"" + lsep + "5" + 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 + "2)";
            sheet.Cell(rowNumber, 1).Value = "=DATE(2009" + lsep + "1" + lsep + "2)";

            rowNumber += 2;

            // Example on TIME() function in formula
            sheet.Cell(rowNumber, 0).Value = "TIME(1" + lsep + "1" + lsep + "2)";
            sheet.Cell(rowNumber, 1).Value = "=TIME(1" + lsep + "1" + lsep + "2)";

            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 + "FALSE)
            sheet.Cell(rowNumber, 1).Value = "=IF(1=1" + lsep + "TRUE" + lsep + "FALSE

            rowNumber += 2;

            // Example on COUNTA() function in formula
            sheet.Cell(rowNumber, 0).Value = "NPV(10%" + lsep + "10000" + lsep + "1000
            sheet.Cell(rowNumber, 1).Value = "=NPV(10%" + lsep + "10000" + lsep + "100
```

```
            try
            {
                System.IO.File.Delete("output.xls");
            }
            catch (Exception ex)
            {
            }

            spreadsheet.SaveAs("output.xls");

            spreadsheet.Close();

            System.Diagnostics.Process.Start("output.xls");
        }
    }
}
```

VIDEO

https://www.youtube.com/watch?v=NEwNs2b9YN8

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