www.bytescout.com

How to use custom functions in C# using ByteScout Spreadsheet SDK

Write code in C# to use custom functions with this step-by-step tutorial

The code below will help you to implement an C# app to use custom functions. ByteScout Spreadsheet SDK can use custom functions. It can be used from C#. ByteScout Spreadsheet SDK is the library (SDK) that is capable of writing, reading, modifying and calculating Excel and CSV spreadsheets. Most popular formulas can be calculated and reculculated with Excel installed. You may import or export data to and from CSV, XML, JSON as well as to and from databases, arrays.

You will save a lot of time on writing and testing code as you may just take the C# code from ByteScout Spreadsheet SDK for use custom functions below and use it in your application. This C# sample code is all you need for your app. Just copy and paste the code, add references (if needs to) and you are all set! Enjoy writing a code with ready-to-use sample codes in C#.

Free trial version of ByteScout Spreadsheet SDK is available on our website. Documentation and source code samples are included.

Source Code Files:

Program.cs

```
using System;
using System.Diagnostics;

using Bytescout.Spreadsheet;

namespace CustomFunctions
{
    /// <summary>
    /// This example demonstrates the calculation of custom functions.
    /// </summary>
    class Program
    {
        static void Main(string[] args)
        {
            // Create Spreadsheet instance
            Spreadsheet spreadsheet = new Spreadsheet();
            spreadsheet.RegistrationName = "demo";
            spreadsheet.RegistrationKey = "demo";

            // Load document
            spreadsheet.LoadFromFile(@"CustomFuncExample.xlsx");

            // Add custom formula handler
            spreadsheet.CustomFunctionsCallback = new CustomFunctionsCallback(MyFunctio

            // Calculate the first worksheet
            Worksheet worksheet = spreadsheet.Workbook.Worksheets[0];
            worksheet.Calculate();

            // Save calculated values to neighbor cells to demonstrate custom functions
            worksheet["C2"].Value = worksheet["B2"].Value;
            worksheet["C3"].Value = worksheet["B3"].Value;
            worksheet["C4"].Value = worksheet["B4"].Value;

            // Save modified spreadsheet
            spreadsheet.SaveAs(@"result.xlsx");

            // Cleanup
            spreadsheet.Dispose();

            // Open saved spreadsheet in associated application (for demo purpose)
            Process.Start("result.xlsx");
        }

        public static object MyFunctions(string funcName, object[] args, ref bool handl
        {
            // Handle "CUSTOMFUNC_FACTORIAL" function
            if (String.Compare(funcName, "CUSTOMFUNC_FACTORIAL", StringComparison.Ordi
            {
                handled = true;

                // Compute factorial
                if (args.Length > 0)
                {
                    int value = (int)(double) args[0];

                    if (value == 0 || value == 1)
                        return 1;
```

```
                    int f = 1;
                    for (int i = 1; i <= value; i++)
                        f = f * i;

                    return f;
                }

                return null;
            }

            // Handle "CUSTOMFUNC_SUM" function
            if (string.Compare(funcName, "CUSTOMFUNC_SUM", StringComparison.OrdinalIgn
            {
                handled = true;

                // Compute the sum of values
                if (args.Length > 0)
                {
                    double sum = 0;
                    foreach (var o in args)
                        sum += (double)o;

                    return sum;
                }

                return null;
            }

            return null;
        }
    }
}
```

VIDEO

https://www.youtube.com/watch?v=nm_7I0PN1TY

ON-PREMISE OFFLINE SDK

60 Day Free Trial or Visit ByteScout Spreadsheet SDK Home Page
Explore ByteScout Spreadsheet SDK Documentation
Explore Samples
Sign Up for ByteScout Spreadsheet SDK Online Training