



Use JavaScript Function in C# Windows Application



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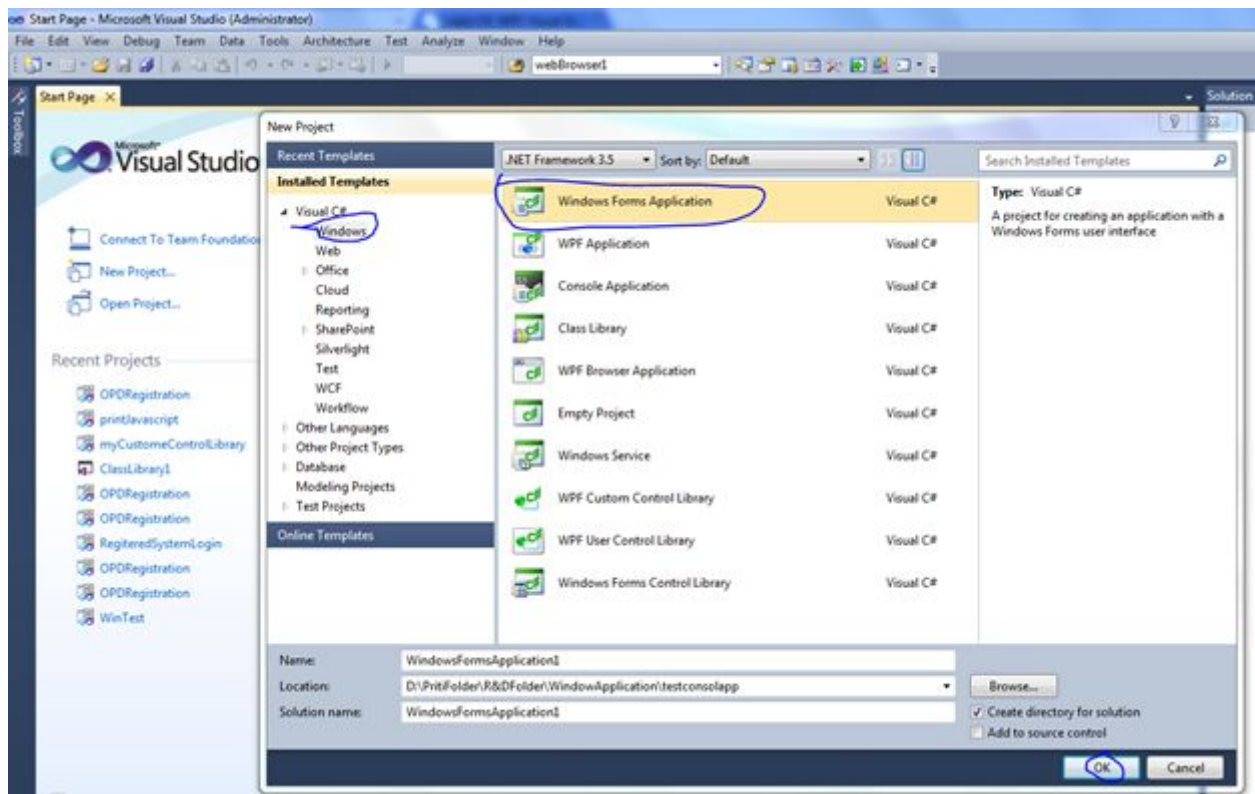
Introduction

This article explains how to use a JavaScript function in a Windows application C#. A previous article explained how to call a JavaScript function in C# code. The following are the points:

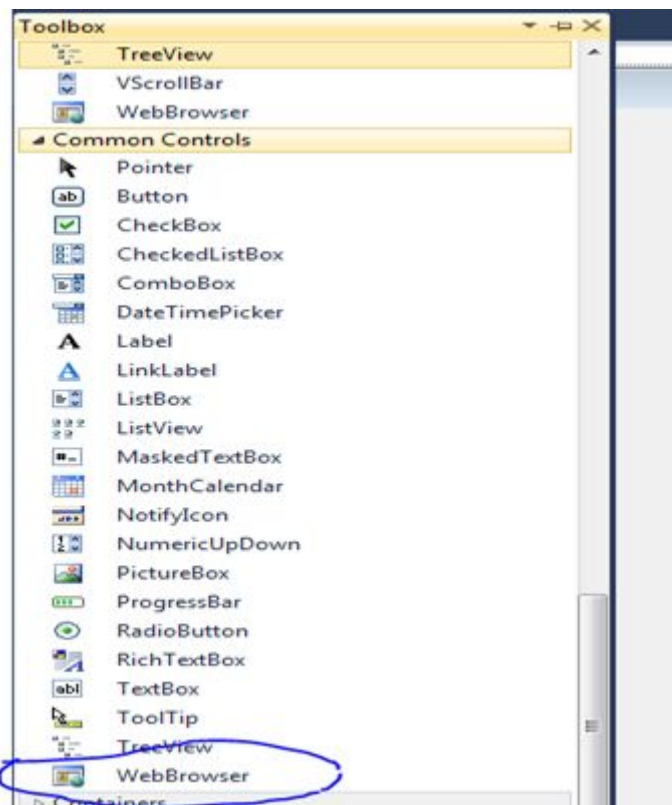
- How to use a JavaScript function in a Windows application
- How to call a JavaScript function in C# code.

I have explained these points using an example. My example uses a web browser control of a Windows Forms application.

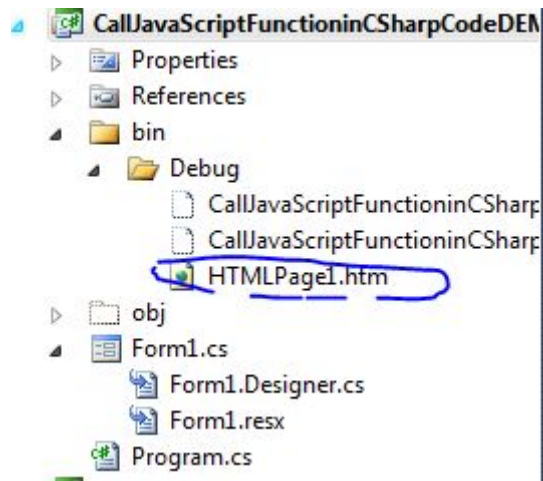
Step 1- Initially create a new window based project. Execute Visual Studio then: "File" -> "New" -> "Project..." then select "Windows" -> "Windows Forms Application".



Step 2- Then drag and drop a web browser control to the Windows Forms form and also drag and drop a Print Dialog Control onto the form.



Step 3- Then go to "Application" => "Add New Item" => "Add HTML page" to add a page to the debug folder of the application.



Step 4- Create a JavaScript function on the HTML page. Here I need to write two functions, one function without a parameter and another one with a parameter.

```
<html>
<head>
  <title></title>
  <script type="text/javascript">
    function ShowMessage() {
      alert("Hii i am a function of Javascript and i am calling from C# code.");
    }

    //Parametrize function
    var message;
    function ShowMessageParametrizeFunction(message) {
      alert(message);
    }
  </script>
</head>
```

Step 5- Write this code in Form Constructor.

```
/// <summary>
/// Its Constructor.
/// </summary>
public Form1()
{
  InitializeComponent();
  this.Load += new EventHandler(Form1_Load);
  webBrowser1.DocumentCompleted += new WebBrowserDocumentCompletedEventHandler(webBrowser1_DocumentCompleted);
  webBrowser1.ScriptErrorsSuppressed = true;
}
```

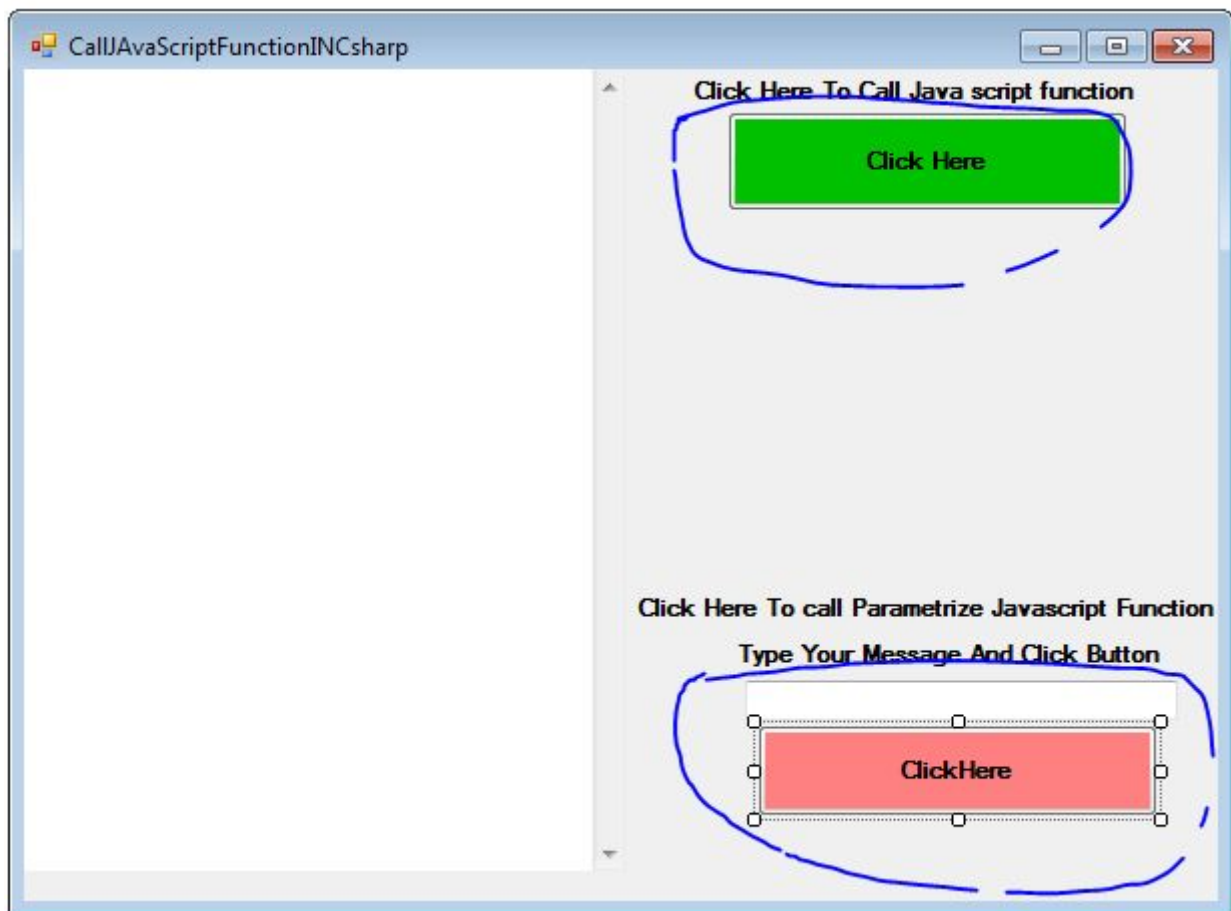
Step 6- Write this code for the Form Load event:

```
void Form1_Load(object sender, EventArgs e)
{
  //In below written code i have to get the current directory of this applicaton.
  string CurrentDirectory = Directory.GetCurrentDirectory();
  //Here i have to call html page using navigate method.Its mandetory to call
  //navigate method when you have to fire web
  //browser Document Completed event.
  webBrowser1.Navigate(Path.Combine(CurrentDirectory, "HTMLPage1.htm"));
}
```

Step 7- Write this code in the web browser control's DocumentCompleted method.

```
/// <summary>  
/// Occurs when web browser control finishes the loading of html document.  
/// </summary>  
/// <param name="sender">Object</param>  
/// <param name="e">event args</param>  
void webBrowser1_DocumentCompleted(object sender, WebBrowserDocumentCompletedEventArgs e)  
{  
    webBrowser1.ObjectForScripting = this;  
}
```

Step 8- Drag two Buttons and one TextBox control to your form. My form design now looks like this:



Step 9:- After designing write this code for the button Click event.

```

/// <summary>
/// here i have to Call javascript method.
/// </summary>
/// <param name="sender"></param>
/// <param name="e"></param>

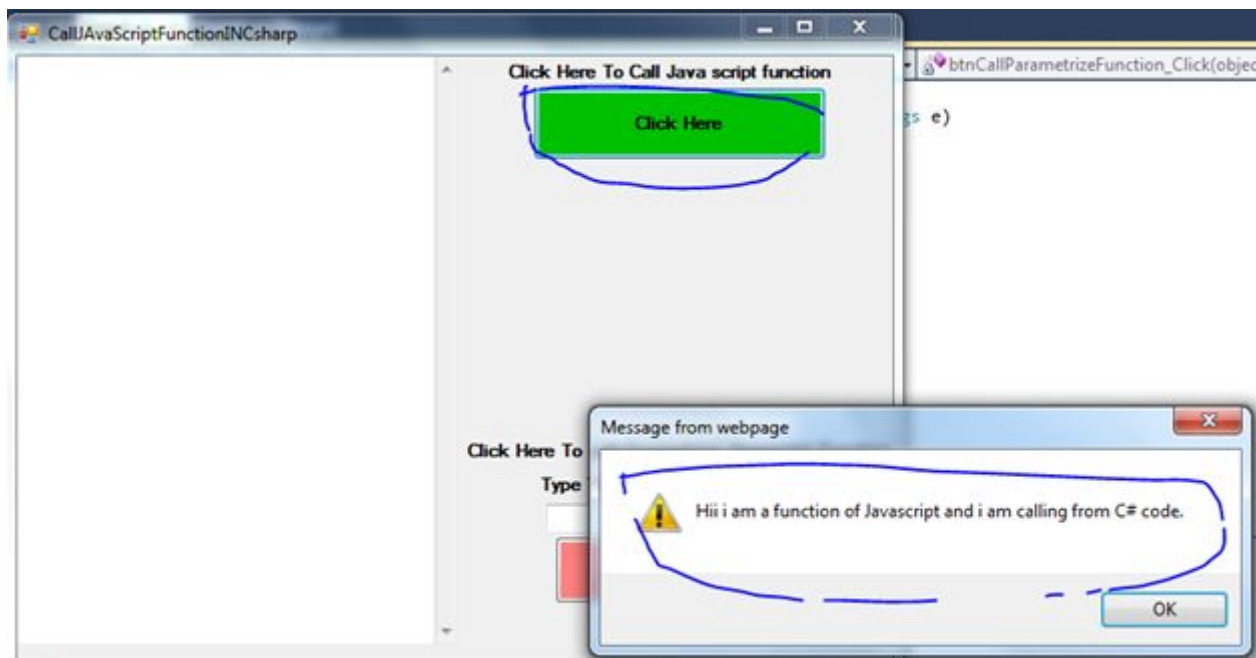
private void btnCallFunction_Click(object sender, EventArgs e)
{
    webBrowser1.Document.InvokeScript("ShowMessage");
}

/// <summary>
/// here i have to Call parametrize java script function.
/// </summary>
/// <param name="sender"></param>
/// <param name="e"></param>
private void btnCallParametrizeFunction_Click(object sender, EventArgs e)
{
    if (string.IsNullOrEmpty(txtInput.Text)) { MessageBox.Show("Please Type your message in Textbox before click on Button."); return; }
    webBrowser1.Document.InvokeScript("ShowMessageParametrizeFunction", new string[] { txtInput.Text.Trim() });
}

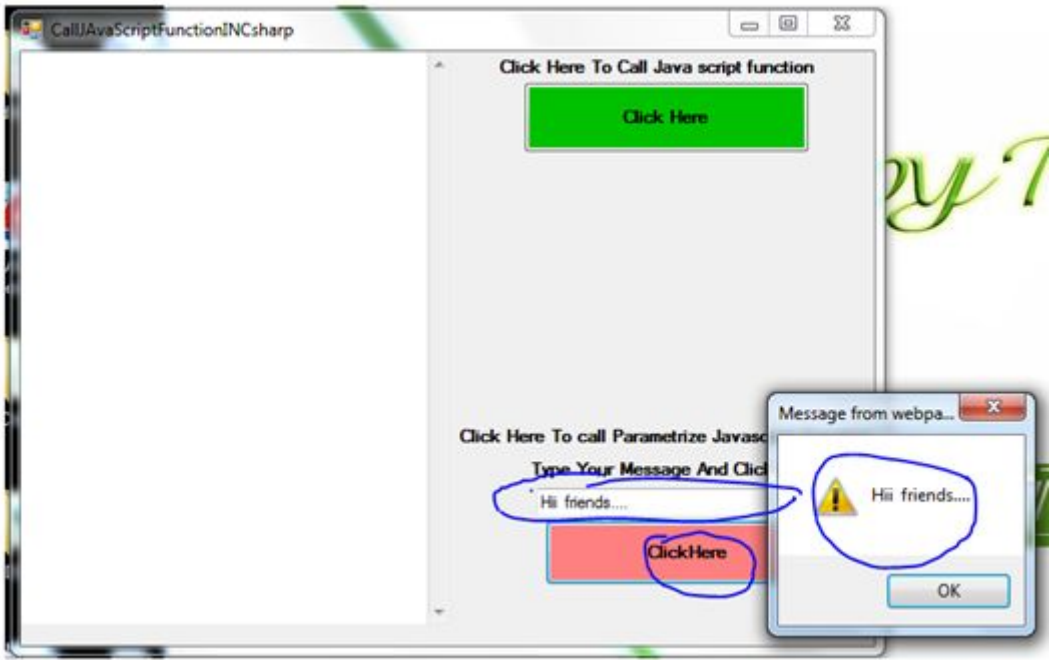
```

Output

When this button is clicked you will get the following message:



The second button's output is:

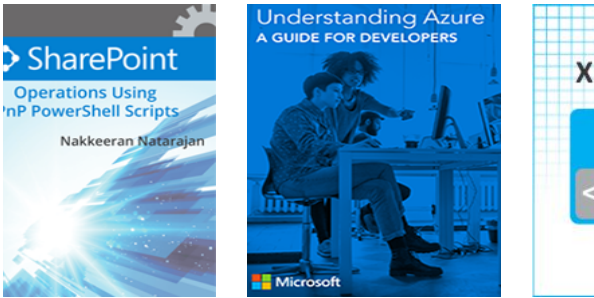


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[nijime youk](#)

2033 3 0

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Hello Priti, Step 7's Source Code Image is missing , can you help?

[Shawn Domingo](#)

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Fixed Image. Thanks!

[Praveen Kumar](#)

Admin 65k 10.5m

Feb 18, 2021

0



It works well but how to get a variable of js ?

[amir farhang](#)

2013 23 0

Mar 06, 2020

0 0 Reply



Seems goooooood :)

[amir farhang](#)

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I am tring to add jQuery to my Webbrowser in c# , can you tell me how?

[Nour H.](#)

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I followed these instructions but once I publish the application it does not bring up the HTML and Javascript in the application, just shows me a blank windows application form. But it works when i use the debugging function

[James Ryckman](#)

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Aug 17, 2018

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James, Did your application work when you published it?

[Melany Vega](#)

2009 28 0

Jun 21, 2021

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error says: NullReferenceException was unhanded. at" webBrowser1.Document.InvokeScript("notifyMe"); "

[dinav ahire](#)

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Good one...thoughtfull :)

satish G

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