

```
using System;
using System.Collections;
using System.ComponentModel;
using System.Data;
using System.Diagnostics;
using System.Web;
using System.Web.Services;
```

```
namespace DegreesWebService
```

```
{
    /// <summary>
    /// Summary description for Service2.
    /// </summary>
```

```
[WebService(Namespace="http://localhost/classes/advanced/ch01/DegreesWebService/")]
```

```
public class Service2 : System.Web.Services.WebService
{
    public Service2()
    {
        //CODEGEN: This call is required by the ASP.NET Web Services Designer
        InitializeComponent();
    }

    #region Component Designer generated code

    //Required by the Web Services Designer
    private IContainer components = null;

    /// <summary>
    /// Required method for Designer support - do not modify
    /// the contents of this method with the code editor.
    /// </summary>
    private void InitializeComponent()
    {
    }

    /// <summary>
    /// Clean up any resources being used.
    /// </summary>
    protected override void Dispose( bool disposing )
    {
        if(disposing && components != null)
        {
            components.Dispose();
        }
        base.Dispose(disposing);
    }
}
```

```
#endregion
```

```
[WebMethod]
```

```
public string FahrenheitToCelcius(string strFahrenheit )
```

```
{
```

```
    //define the variables
```

```
    string strOutput = "";
```

```
    decimal decCelcius ;
```

```
    //convert to Celcius
```

```
    decCelcius = (((Convert.ToDecimal(strFahrenheit) - 32) / 9) * 5);
```

```
    //round to 2 decimal places
```

```
    decCelcius = Math.Round(decCelcius, 2);
```

```
    //convert it back to a string
```

```
    strOutput = Convert.ToString(decCelcius);
```

```
    //return output of the function
```

```
    return strOutput;
```

```
}
```