HTML Example

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-
transitional.dtd">
<a href="http://www.w3.org/1999/xhtml">
<head>
  <title>Form Demo</title>
</head>
<body>
  <form name="MyForm" action="Form.html" method="post" enctype="multipart/form-data">
  Name: <input type="text" maxlength="10" size="6" tabindex="1" name="txtName" value="Deccansoft"/><br/>br/>
  Password: <input type="password" name="txtPassword" value="test"/><br/>
  Gender<br/>
  <input type="radio" name="rbnGender" checked="checked"/>Male
  <input type="radio" name="rbnGender"/>Female<br/>
  Hobbies<br/>
  <input type="checkbox" id="chkMusic" name="chkMusic" checked="checked" value="1",</pre>
  <label for="chkMusic">Music</label>
  <input type="checkbox" name="chkDance"/>Dance<br/>
  Address:<br/>
  <textarea rows="6" cols="50">This is <b>Deccansoft</b></textarea><br/>br/>
  How do you rate my site:
  <select name="rating" size="3" multiple="multiple" >
     <option value="A">Good</option>
     <option value="B" selected="selected">Average</option>
     <option value="C">Poor</option>
  </select><br/>
  My Image:
  <input type="file" name="fileMyImage"/><br/>
  <input type="button" name="btnHello" value="Hello"/>
  <input type="reset" value="Reset Button"/>
  <input type="submit" value="Submit"/>
  <input type="image" src="demo.gif " />
  <img src="demo.gif"/>
  </form>
</body></html>
```

Javascript

- 1. Javascript is an Interpreted language and it's executed by the interpreter built in within the web browser on all platforms.
- 2. It is Object based (doesn't support inheritance) and is case sensitive language.
- 3. It is very loosely typed. i.e it doesn't have any datatypes.
- 4. It's a specification by initially Netscape and is acknowledge by ECMA (European Computer Manufacturers Association)
- 5. Javascript language together with **HTML DOM** (Document Object Model) API is used to make the web page dynamic or interactive. Also we can do client side validations of data before the form is submitted to server.

Embedding Javascript in Page BODY

```
Write the below in <body> of HTML page
2. 
  <script type="text/javascript">
   n = prompt("Please enter a number", 10);
   if (!isNaN(n))
     for(i=1;i<=10;i++)
       document.write("")
                       " + n + "")
       document.write("
       document.write("
                       *")
       document.write("
                       " + i + "")
       document.write("
                       =")
                       " + n*i + "")
       document.write("
       document.write("")
  </script>
```

```
1. Add to <body>
<script type="text/javascript">
     var i:
     for(i=0;i<100;i++)
       document.write("This is line number: + i + (br)");
  </script>
3. <select name="day">
     <script type="text/javascript">
       var dt = new Date(); //dt is set to system data of client.
       for(i=1; i <= 31; i++)
          if (dt.getDate() == i) //True for today.
             document.write("<option SELECTED value=\"" + i
                                          + "\" + i + " < /option > ")
             document.write("<option value=\"" + i + "\">" + i +
                                            "</option>")
     </script>
 </select>
```

```
Handling Events in Javascript
<html>
                                                              <body>
 <head>
                                                               <form name="form1">
    <title>General Examples</title>
                                                               Name: <input type="text" name="txtName">
    <script language="javascript" type="text/javascript">
                                                               <input type="button" value="Say Hello"
       function SavHello()
                                                                                  onclick="javascript:SavHello()">
                                                             </form>
          window.alert("Hello " +
                                                            </body>
             document.forms[0].txtName.value);
                                                            </html>
   </script>
 </head>
```

```
Using Dropdown List (Select tag)
<script type="text/javascript">
                                                                                        <body>
     function Calculate()
                                                                                          <form name="form1">
                                                                                             <input type="text" name="txtN1" />
<select name="selOperation"</pre>
        var n1 = document.form1.txtN1.value;
                                                                                                          onchange="Calculate()">
        var n2 = document.form1.txtN2.value;
                                                                                               <option value="+">+</option>
<option value="-">-</option>
<option value="*">*</option>
        var ddl = document.form1.selOperation
        var opt = ddl.options[ddl.selectedIndex]; //returns selected option
       switch (opt.value)
                                                                                                <option value="/">/</option>
          case "+":
                                                                                              </select>
             document.form1.txtResult.value = parseInt(n1) + parseInt(n2);
                                                                                             <input type="text" name="txtN2" />
             break;
          case "-":
                                                                                             <input type="text" name="txtResult"</pre>
             document.form1.txtResult.value = n1-n2;
                                                                                                              readonly="readonly" />
                                                                                           </form>
             break;
          case "*":
                                                                                        </body>
             document.form1.txtResult.value = n1*n2;
                                                                                       </html>
             break;
          case "/":
             document.form1.txtResult.value = n1/n2;
             break;
  </script>
</head>
```

```
Example to Show Image Changing and using "this"
<head>
                                                           <body>
 <title>Image Page</title>
                                                              <img src="Main.jpg"
  <script type="text/javascript">
                                                                   alt="Demo" name="img1"
    function changeImage()
                                                                   onmouseover="changeImage()"
                                                                   onmouseout="restoreImage()"
      document.images["img1"].src = "Hover.jpg"
                                                                   width="100" height="100" />
                                                              <img src="Main.jpg"
    function restoreImage()
                                                                   alt="Demo"
                                                                   onmouseover="this.src='Hover.jpg'"
      document.images[0].src = "Main.jpg"
                                                                   onmouseout="this.src='Main.jpg"
                                                                   width="100" height="100" />
  </script>
                                                            </body>
</head>
```

Steps for Debugging Javascript

- 1. Browser → Tools → Internet Options... → Advanced → Uncheck Disable Script Debugging (Internet Explorer) → OK
- 3. Close the browser and start a new instance.
- 4. In javascript code, to start debugging write the statement: "debugger;"
- 5. Open the page the in browser
- 6. When the statement "debugger" is executed, browser shows a dialog for selecting the debugger...
- 7. Select the already exiting Visual Studio Instance --> OK

8. Continue Debugging using Debug toolbar (right click on menubar and select debug)

```
To Show / Hide a Block Using Style
<html>
                                                             <body>
<head>
                                                                <form name="form1" action="">
<title>JS Demo</title>
                                                                    <input type="radio" name="r1" value="show"</pre>
<script type="text/javascript">
                                                                        checked="checked" onclick="r1 click()" />Show
function r1 click()
                                                                    <input type="radio" name="r1" value="hide"</pre>
                                                                                 onclick="r1 click()" />Hide
 if (document.form1.r1[0].checked)
                                                                    <span id="spn">This is some text...</span>
                                                                    <textarea name="taDemo" rows="5" cols="20"
  document.getElementById("spn").style["display"] = "";
                                                                     onchange="ShowHTMLOutput(this)"></textarea>
  document.getElementById("spn").style["display"] =
                                                               </form>
"none";
                                                             </body>
                                                             </html>
function ShowHTMLOutput(ta)
                                                             Note: If we have more than one element with same name,
   spn.innerHTML = ta.value
                                                             automatically an array with name of that element is created in
                                                             form. In the example, "r1" array is created in form.
</script>
</head>
```

```
Performing Client side validations before the form is submitted to server
<html>
                                                            <body≥
                                                               <form name="Form1" onsubmit="return validate()">
<head>
  <title>Validation On Submit</title>
                                                                 N1 <input type="text" name="txtN1" /><br />
  <script language="javascript">
                                                                 N2 <input type="text" name="txtN2" /><br />
    function validate()
                                                                 <input type="submit" value="Add" />
                                                                 <input type="submit" value="Sub" />
                                                                 <input type="submit" value="Mul" />
       n1 = document.Form1.txtN1.value
      n2 = document.Form1.txtN2.value
                                                                 <input type="submit" value="Div"
      if (n1 == "" || n2 == "")
                                                                                  onclick="return div Click()"/>
                                                                 <input type="submit" value="Delete"</pre>
         alert("Please enter all the values")
                                                                   onclick="return confirm('Are you sure')" />
         return false; //Form is not Submitted
                                                             </form>
                                                            </body>
      return true; //Form is Submitted
                                                            </html>
    function div_Click()
                                                            Note:
       if (document.Form1.txtN2.value == "0")
                                                            If either OnSubmit event handler of Form or
                                                            OnClick event handler of Submit button returns
         alert("Denominator cannot be zero"):
                                                            false, then the form is not submitted to server.
         return false; //Form is not Submitted
       return true; //Form is Submitted
                                                            Only if onclick of submit button return true,
                                                            onsubmit of form is executed.
  </script>
</head>
```

To Show and Close the Window

```
var win;
function ShowWindow()
{
    win = window.open("JS1.htm","win1","menubar=no,scrollbars=no,width=400,height=500,location=no,resizable=yes")
}
function CloseWindow()
{
    win.close();
}
```

ShowTime.js

```
document.write("<span id='spnTime'></span>")
function setClientTime()
{
    document.getElementById("spnTime").innerHTML = new Date().toTimeString();
    setTimeout("setClientTime()",1000)
}
setClientTime()
In any HTML Page...Add the following to show System time.
<script type="text/javascript" src="ShowTime.js"></script></script>
```