

JavaScript Event Handlers

1. Include the following code segment in an html file and check the output

```
<a href="http://www.w3schools.com" onmouseover="document.bgColor='yellow'">  
Go to W3Schools  
</a>
```

2. Modify the above code to change the background color to a different color when you place the mouse out of the link.

Pop-up windows

1. Include the following lines within an html file and check the output

```
<a href="#" onclick="window.open('http://www.ruh.ac.lk/Uni/tec/')">  
Faculty of Technology  
</a>
```

2. Insert the URL <http://www.google.com> instead of # in the above code. And view the output.
3. Change the code to open **first.html** web page (from the practical 7), instead of <http://www.google.com> when you click on the hyperlink.
4. Include the following code to **first.html** page and save the new code as **close.html**

```
<input type="button" value="close" onclick="window.close()">
```

JavaScript functions

1. Create the following html file and practice the prompt box example (save the file as **prompt.html**)

```
<!DOCTYPE html>
<html>
  <head>
    <script type="text/javascript">
      function display_msg(){
        var name=prompt("Enter your name","My name is");

        if(name!=""){
          document.write("Hello "+name);
        }
      }
    </script>
  </head>
  <body>
    <input type="button" value="Click me" onclick="display_msg()" />
  </body>
</html>
```

2. Modify the above code to display the “Hello *Name*” in a message box and save that code as **prompt2.html**
3. Try the given code which converts the weight into grammes(Save the page as **converter.html**)

```

<!DOCTYPE html>
<html>
  <head>
    <script type="text/javascript">

      function convert_weight() {
        var kg=2;

        var g=kg*1000;
        document.write("Weight in gramme is "+g);
      }
    </script>
  </head>
  <body>
    <h2>Weight converter (kg into g)</h2>
    <input type="button" value="Convert into grammes" onclick="convert_weight()" />
  </body>
</html>

```

4. Change the above given code to add a kg value using prompt box and display the converted output in a message box (Save the new page as **converter2.html**)
5. Create the given below form using the given code and save it as **form_validate.html**
 - a. Check how the form validation is done using JavaScript

```

<!DOCTYPE html>
<html>
  <head>
    <title>Select Box Control</title>
    <style>
      td{font-family:cambrria;}
      table{border: 1px solid black;}
      h1{color:blur;text-align:center}
    </style>
    <script type="text/javascript">
      function validate_form(){
        var validatePwd;
        if(document.myform.pwd1.value!=document.myform.pwd2.value){
          alert("Two passwords are not matching");
          document.myform.pwd1.focus();
          document.myform.pwd1.select();
          return validatePwd=false;
        }
        else{
          alert("Passwords are matching");
          return validatePwd=true;
        }
      }
    </script>
  </head>
  <body bgcolor="aqua">
    <h1>Password Validation</h2>
    <form name="myform" onsubmit="return validate_form()"action="#">
      <table align="center">
        <tr>
          <td>Enter password</td>
          <td><input type="password" name="pwd1"></td>
        </tr>
        <tr>
          <td>Re-enter the password</td>
          <td><input type="password" name="pwd2">
        </tr>
        <tr>
          <td><input type="submit" value="Submit"></td>
          <td><input type="reset" value="Reset"></td>
        </tr>
      </table>
    </form>
  </body>
</html>

```

- b. Modify the given above form as given below (Hint: Add a text box to enter the full name)

Password Validation

Enter full name

Enter password

Re-enter the password

Submit

Reset

- c. Add another function called **allLetter()**, to check whether the entered text is consisting only with characters. If the text box contains numbers, then provide the error message “You can only enter characters for full Name”
6. Create the given below form and save it as **classClaculator.html**

Class Calculator

Enter your GPA value

Submit

Reset

Write down a JavaScript function to print messages according to given below details

gpa	Message
4>gpa>=3.7	First class
3.7>gpa>=3.3	Second class upper division
3.3>gpa>=3.0	Second class lower division
3.0>gpa>=2.0	Pass
2.0>gpa>=0	Fail
Gpa>4 or gpa<0	Please enter a valid gpa value
null	Please enter your GPA value