

Misr International University Course Code & Title: SWE230 Web Development Semester: Spring 2022 Instructor: Dr. Mohamed ElGazzar

Lab manual 5

JavaScript

Scripts can be added using the <script> tags in the html either in the body or the head. Or they could be added in a separate file and later on be linked in html file.

• Scripts in head:

```
□<html>
2
   中
         <head>
3
             <script>
4
                  alert('Welcome to JavaScript');
5
             </script>
 6
         </head>
7
8
         <body>
9
             Welcome
10
         </body>
11
12
    L</html>
```

• Scripts in body:

```
□<html>
 2
   \Rightarrow
         <head>
 3
          </head>
 4
 5
          <body>
   中
 6
              Welcome
 7
              <script>
   中
 8
                   alert('Welcome to JavaScript');
 9
              </script>
10
          </body>
11
12 </html>
```

• Linking external scripts:

```
1 <script src="/path/to/script.js"></script>
```

```
1 <script src="https://cdnjs.cloudflare.com/ajax/libs/lodash.js/3.2.0/lodash.js"></script>
```

Variables in JS:

```
var x = 5.25;
var person = "Ahmed Mostafa";
var cars = ["Saab", "Volvo", "BMW"]
```

Var, let:

```
var x = 10;
// Here x is 10
{
    var x = 2;
    // Here x is 2
}
// Here x is 2
// Here x is 10
```

Using Functions

```
2 = 3 =
        <head>
            <script>
4
            function showAlert()
5 🖨
6
                 alert('Welcome to JavaScript');
7
8
             </script>
9
        </head>
11 🖨
        <body>
12
            Welcome
             <input type="button" onclick="showAlert()" value="Show Alert">
13
14
        </body>
15
16 <sup>[</sup></html>
```

Changing HTML attributes

```
2 🛊
       <head>
3 🖨
           <script>
4
           function change()
5 🖨
6
               document.getElementById('myID').innerHTML="<h1>Hello!</h1>";
7
8
           }
9
           </script>
10
       </head>
11
12 🖨
       <body>
13
           Welcome
14
           <input type='button' onclick='change()' value='change'>
15
       </body>
16
17 <sup>[</sup></html>
```

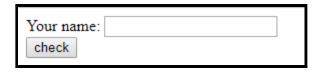
Output:



Input Validation

```
<head>
             <script>
             function check()
                 var a = document.getElementById('fn').value;
if (a == "")
                 alert('Please fill your name');
11 -
12 -
13 -
14
15 =
             </script>
         </head>
         <body>
             Your name:
             <input id="fn" type="text">
18
             <br>
19
             <input type="button" onclick='check()' value="check">
         </body>
    </html>
```

Output:





PHP filter_var() Function

The filter var() function both validates and sanitizes data.

The <u>filter_var()</u> function filters a single variable with a specified filter. It takes two pieces of data:

- The variable you want to check
- The type of check to use

```
<?php
$int = 100;

if (!filter_var($int, FILTER_VALIDATE_INT) === false) {
   echo("Integer is valid");
} else {
   echo("Integer is not valid");
}
}
</pre>
```

```
<?php
$int = web;

if (!filter_var($int, FILTER_SANITIZE_STRING) === false) {
   echo("Integer is valid");
} else {
   echo("Integer is not valid");
}
}</pre>
```

```
<!php
$int = 0;

if (filter_var($int, FILTER_VALIDATE_INT) === 0 || !filter_var($int, FILTER_VALIDATE_INT) === false) {
   echo("Integer is valid");
} else {
   echo("Integer is not valid");
}
}
</pre>
```

```
<!php
$ip = "127.0.0.1";

if (!filter_var($ip, FILTER_VALIDATE_IP) === false) {
    echo("$ip is a valid IP address");
} else {
    echo("$ip is not a valid IP address");
}
</pre>
```

```
<?php
$email = "john.doe@example.com";

// Remove all illegal characters from email
$email = filter_var($email, FILTER_SANITIZE_EMAIL);

// Validate e-mail
if (!filter_var($email, FILTER_VALIDATE_EMAIL) === false) {
   echo("$email is a valid email address");
} else {
   echo("$email is not a valid email address");
}

}

?>
```

```
<?php
$url = "https://www.w3schools.com";

// Remove all illegal characters from a url
$url = filter_var($url, FILTER_SANITIZE_URL);

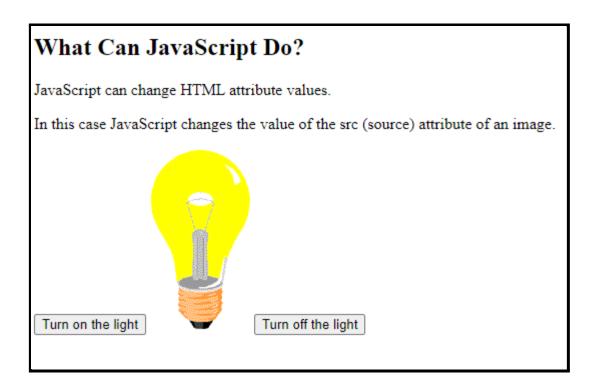
// Validate url
if (!filter_var($url, FILTER_VALIDATE_URL) === false) {
   echo("$url is a valid URL");
} else {
   echo("$url is not a valid URL");
}

?>
```

Exercise

1.change image by using javascript

In this example JavaScript changes the value of the src (source) attribute of an tag



2.website:

The "UserName" and "Password" should be inserted into the database when the user clicks on "submit" and validates input using javascript.

Validate all forms in

- Signup
- Login
- EditInfo