

2_WEB-4: DOM Manipulation & Asynchronous Programming - ASYNC (3 Hours 20 mins)

Learning Objectives	<ul style="list-style-type: none">• What is DOM and DOM manipulation• Selecting and manipulating elements• Handling Scrolling• Event Listeners and The Event Object (Mouse Events, Keyboard and Input Event)
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Time	Activity
(3 min)	OPENING
(1 hours 45 min)	CONTENT
(10 min)	DEBRIEF
(2 min)	CLOSING

OPENING (3 min)

Activity Type	Reading
Framing Text	<p>Welcome to this session in which you be able to work on some advance functions</p> <p>In this section you will be able to work on programming question that will help you to understand JavaScript programming well. You have to complete all the questions</p> <p>By the end of this session, you will be able to:</p> <ul style="list-style-type: none">• Manipulate DOM events• How to use AJAX and XHR
Assets	<ul style="list-style-type: none">• n/a

2_WEB-4: DOM Manipulation & Asynchronous Programming - ASYNC (3 Hours 20 mins)

CONTENT (1 hours 10 min)

Activity Type	Coding
Framing Text	<p>This will take you approximately 3 hours 20 mins to complete.</p> <p>After completing it, you will return to code files by zipping in the folders for a debrief.</p> <p>Complete:</p> <p>Happy coding!</p> <div><p>Note: Please reach out to instructors asking for help if you get stuck with understanding of questions</p></div>
Assets	<p>Task 1:</p> <ul style="list-style-type: none">Here is a sample html file with a submit button. Now modify the style of the paragraph text through javascript code.Clicking on the button the font, font size, and color of the paragraph text will be changed. <pre><!DOCTYPE html> <html> <head> <meta charset=utf-8 /> <title>JS DOM paragraph style</title> </head> <body> <p id ='text'>JavaScript Exercises - w3resource</p> <div> <button id="jsstyle" onclick="js_style()">Style</button> </div> </body> </html></pre>

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Task 2:

- Write a JavaScript function to get the values of First and Last name of the following form.

```
<!DOCTYPE html>
<html><head>
<meta charset=utf-8 />
<title>Return first and last name from a form - w3resource</title>
</head><body>
<form id="form1" onsubmit="getFormvalue()">
First name: <input type="text" name="fname" value="David"><br>
Last name: <input type="text" name="lname" value="Beckham"><br>
<input type="submit" value="Submit">
</form>
</body>
</html>
```

Task 3:

- Write a JavaScript program to remove items from a dropdown list.

```
<!DOCTYPE html>
<html><head>
<meta charset=utf-8 />
<title>Remove items from a dropdown list</title>
</head><body><form>
<select id="colorSelect">
<option>Red</option>
<option>Green</option>
<option>White</option>
<option>Black</option>
</select>
<input type="button" onclick="removecolor()" value="Select and Remove">
</form>
</body>
```

2_WEB-4: DOM Manipulation & Asynchronous Programming - ASYNC (3 Hours 20 mins)

```
</html>
```

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Task 4:

- Write a JavaScript program to count and display the items of a dropdown list, in an alert window.

```
<!DOCTYPE html>
<html><head>
<meta charset=utf-8 />
<style type="text/css">
body {margin: 30px;}
</style>
<title>Count and display items of a dropdown list - w3resource</title>
</head><body><form>
Select your favorite Color :
<select id="mySelect">
<option>Red</option>
<option>Green</option>
<option>Blue</option>
<option>White</option>
</select>
<input type="button" onclick="getOptions()" value="Count and Output all items">
</form>
</body>
</html>
```

Task 5:

- Write a JavaScript program to highlight the bold words of the any paragraph, on mouse over a certain link

Task 6:

- Add images and Give all the images at even position a similar border color and style, and all the images at odd position same border style but different then the even ones.

2_WEB-4: DOM Manipulation & Asynchronous Programming - ASYNC (3 Hours 20 mins)

```
<body>
  <img src='http://assets.stickpng.com/thumbs/580b585b2edbce24c47b2704.png' alt='photos' height='150px' />
  <img src='https://static.vecteezy.com/system/resources/previews/001/193/929/non_2x/vintage-car-png.png' alt='photos'
height='150px' />
  <img src='https://www.kindpng.com/picc/m/381-3816942_indoor-plants-png-transparent-png.png' alt='photos' height='150px' />
  <img src='https://www.freepnglogos.com/uploads/dog-png/bow-wow-gourmet-dog-treats-are-healthy-natural-low-4.png' alt='photos'
height='150px' />
  <img src='https://assets.webiconspng.com/uploads/2017/09/House-PNG-Image-45779.png' alt='photos' height='150px' />
</body>
```

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DEBRIEF (15 min)

Activity Type:

Discussion Forum