JavaScript DOM - Practice Code

Coding is practice... Practice your JS Code, with help of following steps, which will give you a clear understanding about DOM.

Challenge 1: Events on Click
Steps:
- Open VS code.
- Select New File in the opened folder…
- Save the file in the appropriate folder/ create the folder and save the file with extension.
- Copy and Add the below given JS code in the file.

```
<!DOCTYPE html>
<html>
<body>
<h2>JavaScript addEventListener()</h2>
<p>This example uses the addEventListener() method to add two click events to
the same button.</p>
<button id="myBtn">Try it</button>
<script>
var x = document.getElementById("myBtn");
x.addEventListener("click", myFunction);
x.addEventListener("click", someOtherFunction);
function myFunction() {
  alert ("Hello World!");
}
function someOtherFunction() {
  alert ("This function was also executed!");
}
</script>
</body>
</html>
```

- View the file in the browser, by right click on the file name in the left pane.
- View of file in browser.

JavaScript addEventListener()

This example uses the addEventListener() method to add two click events to the same button.

Try it

Hello World!

OK

This function was also executed!

OK

Onclick of the button two alert windows pop up

Challenge 2:
With your knowledge gained in DOM, create a web page with a button that invokes different functions in different events.

HTML elements:
- Button with ID → To add events by accessing this from JavaScript.
- <p> with ID → To display the name of the event by accessing this from JavaScript.

JavaScript:
- Get the instance of the button and store it in a variable using ***getElementById()*** method.
- Create three functions that access the <p> tag in HTML and add the content to the element using the ***.innerHTML()*** method.
- The content should be different for all three functions:

Function	Display content
function1	Display Mouse over
function2	Display Click
function3	Display Mouse out

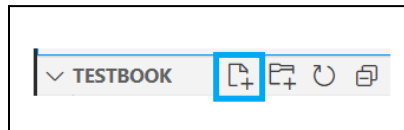- Add event Listener to the button element with different events and respective functions:

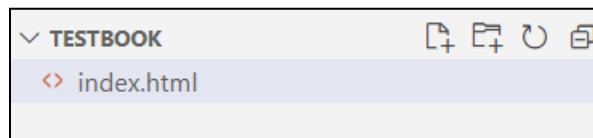| Event	function
mouseover	function1
click	function2
mouseout	function3

Try it

Moused over! ————————→ Get displayed when the mouse is kept on the button
Clicked! ————————→ Get displayed when the button is clicked
Moused out! ————————→ Get displayed when the mouse is taken away from the button

Steps:

- Open VS code.
- Select New File in the opened folder…

∨ TESTBOOK

- Save the file in the appropriate folder/ create the folder and save the file with extension.

∨ TESTBOOK
<> index.html

- The file in the VS Code appears with file extension after saving

<> index.html ●
<> index.html
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Sample code:

```html
<!DOCTYPE html>
<html>
<body>

<h2>JavaScript addEventListener()</h2>

<p>This example uses the addEventListener() method to add many events on the
same button.</p>

<button id="myBtn">Try it</button>

<p id="demo"></p>

<script>
var x = document.getElementById("myBtn");
x.addEventListener("mouseover", myFunction);
x.addEventListener("click", mySecondFunction);
x.addEventListener("mouseout", myThirdFunction);

function myFunction() {
  document.getElementById("demo").innerHTML += "Moused over!<br>";
}

function mySecondFunction() {
  document.getElementById("demo").innerHTML += "Clicked!<br>";
}

function myThirdFunction() {
  document.getElementById("demo").innerHTML += "Moused out!<br>";
}
</script>

</body>
</html>
```
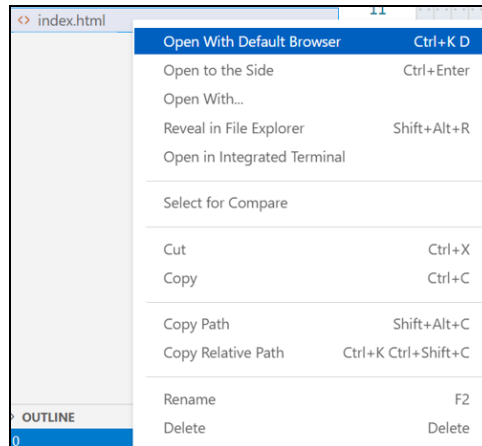
- View the file in the browser, by right click on the file name in the left pane.

Sample Output:

JavaScript addEventListener()

This example uses the addEventListener() method to add many events on the same button.

Try it

JavaScript addEventListener()

This example uses the addEventListener() method to add many events on the same button.

Try it

Moused over!
Moused out!
Moused over!
Clicked!
Moused out!
Moused over!
Moused out!