DOM - Solution

Problem statement:
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

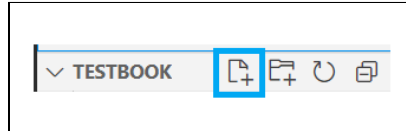- Add event Listener to the button element with different events and respective functions:

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…

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

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

Sample code:

```
<!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>
```
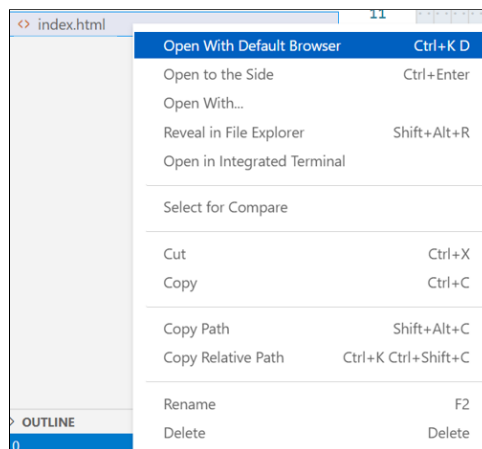
● View the file in the browser, by right click on the file name in the left pane.

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!