

# Lets Upgrade Javascript Essential

## Assignment-04

By how many ways we can access elements in the DOM and write about them in brief.

There are several ways to access elements in the DOM: by ID, class, tag, and query selectors.

ID	#demo	getElementById()
Class	.demo	getElementsByClassName()
Tag	demo	getElementsByTagName()
Selector (single)		querySelector()
Selector (all)		querySelectorAll()

### Accessing Elements by Id:

Element by ID with the `getElementById()` method of the `document` object.

```
document.getElementById();
```

All elements must have unique id no two elements can have same id.

## Accessing Elements by Class

The `class` attribute is used to access one or more specific elements in the DOM. We can get all the elements with a given class name with the `getElementsByClassName()` method.

```
document.getElementsByClassName();
```

we want to access more than one element, and we have two elements with a `demo` class.

```
<div class="demo">Access me by class (1)</div>
<div class="demo">Access me by class (2)</div>
```

## Accessing Elements by Tag

A less specific way to access multiple elements on the page would be by its HTML tag name. We access an element by tag with the `getElementsByTagName()` method.

```
document.getElementsByTagName();
```

## Accessing Elements by Query Selectors

```
document.querySelector();
document.querySelectorAll();
```

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To access a single element, we will use the `querySelector()` method. In our HTML file, we have a `demo-query` element

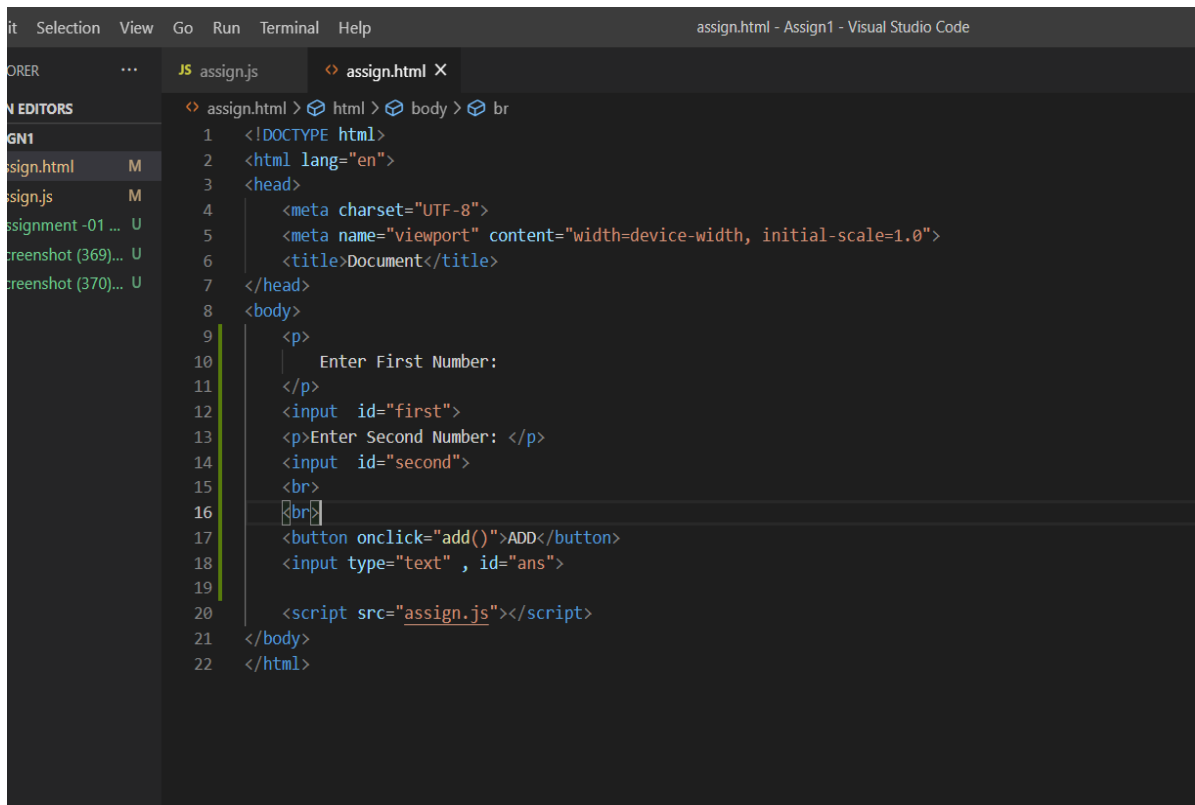
```
<div id="demo-query">Access me by query</div>
```

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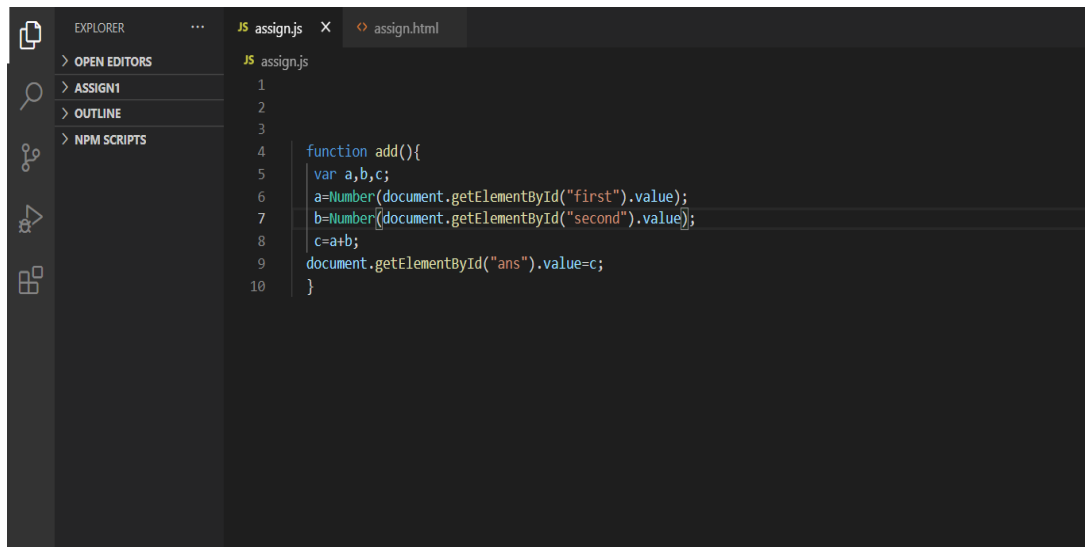
The selector for an `id` attribute is the hash symbol (`#`). We can assign the element with the `demo-query` id to the `demoQuery` variable.

## Question 2

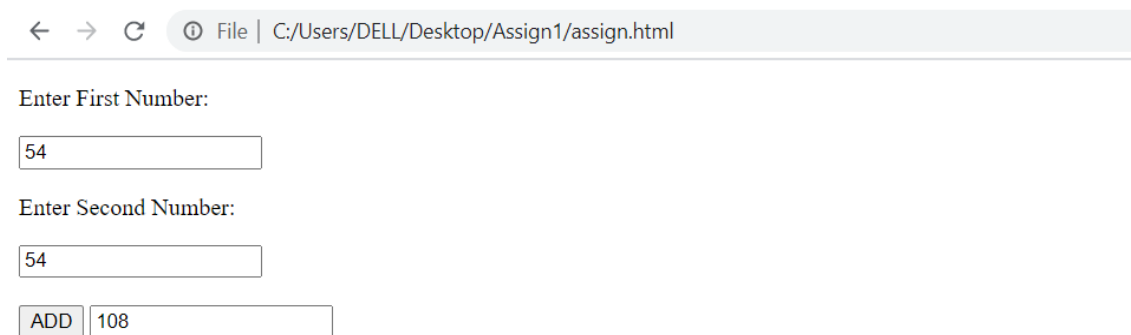
Write a javascript program that will take 2 numbers from the HTML page and display them on the HTML page after the addition of those 2 numbers.



```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Document</title>
7 </head>
8 <body>
9   <p>
10     Enter First Number:
11   </p>
12   <input id="first">
13   <p>Enter Second Number: </p>
14   <input id="second">
15   <br>
16   <br>
17   <button onclick="add()">ADD</button>
18   <input type="text" , id="ans">
19
20   <script src="assign.js"></script>
21 </body>
22 </html>
```



```
1
2
3
4 function add(){
5   var a,b,c;
6   a=Number(document.getElementById("first").value);
7   b=Number(document.getElementById("second").value);
8   c=a+b;
9   document.getElementById("ans").value=c;
10 }
```



← → ↻ ⓘ File | C:/Users/DELL/Desktop/Assign1/assign.html

Enter First Number:

Enter Second Number: