

* DOM

<html>

<head>

<title> My website </title>

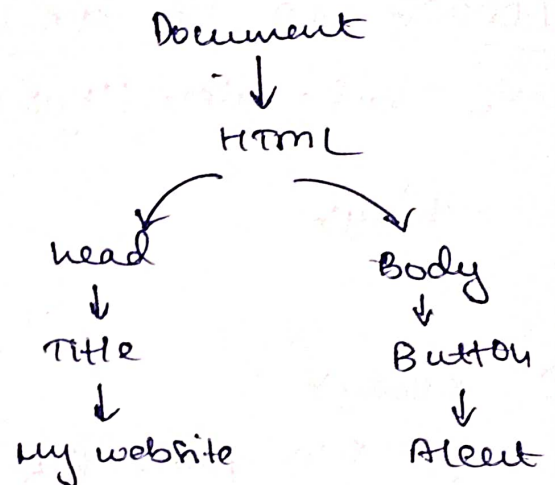
</head>

<body>

<button> Alert </button>

</body>

</html>



Ab agar humein is DOM tree mein se head ko access karna hai. to

document.firstElementChild.firstElementChild

body ko access karna ho to

document.firstElementChild.lastElementChild

* Selecting HTML Elements

<Body>

<h1> Hello </h1>

<input type="checkbox">

<button style="background-color: red;"> Click Me </button>

<li class="list">

 Google

<li class="list"> Second

<li class="list"> Third

<script src="/index.js"> </script>

</Body>

③ Get elements by class name

eg -

(i) ~~document~~ document.getElementsByClassName("btn");

O/p → HTML Collection [button.btn]

↓
returns ~~array~~ HTML collection

we can convert it to array to use filter, map etc. So to make any changes (even if 1 element with that class) we need to specify element index.

(ii) document.getElementsByClassName("btn")[0].style.color = "red";

④ Get elements by id

eg -

(i) document.getElementById("title");

O/p → <h1 id="title"> Hello </h1>

↳ returns element not array as ID is unique.

(ii) document.getElementById("title").innerHTML = "Good Bye";

CONVERTING SOMETHING TO ARRAY

eg -

tempClassList is a HTML collection
then to convert it to array we use

Array.from(tempClassList)

* Query Selector

↳ can be used to select any element, class, or id

for selecting the h1 in our code we can use h1 tag or the #title id.

document.querySelector("h1");

document.querySelector("#title");

↳ we can combine selector to target specific element.

eg- for selecting anchor tag inside list item.

document.querySelector("li a");

eg- for selecting list items with item class

document.querySelector("li.item");

↳ gives us first list item

o/p → `<li class="item"> ... `

for getting all li with item class use All

document.querySelectorAll("li.item");

↳ To be precise it returns node list which is same as Array.

↳ returns an array so to manipulate them we need to specify index

document.querySelectorAll("li.item")[2].style.color = "blue";

↳ Node list mein sirf forEach loop available hota hai. Baki filter, map, reduce use karna ke liye convert it to array.

* Change behaviour on toggle

HTML `<button class = "btninvisible" > click Me </button>`

CSS

```
• btn {  
  ---  
}  
• invisible {  
  visibility : hidden;  
}
```

JS `document.querySelector("button").classList.add("invisible");`

↓
Ye button element ki class mein
'invisible' class add kar rha hai.

`document.querySelector("button").classList.remove("invisible");`

Or
we can use toggle
(added hoga to remove)
(removed hoga to add)

`document.querySelector("button").classList.toggle("invisible");`

* Manipulating Text content

* Manipulating HTML elements attributes

HTML ` google `

[JS] `document.querySelector("a").attributes;`
gives list of attributes
in a chosen tag.

`document.querySelector("a").getAttribute("href");`
is, href attribute
ki value dedega.
o/p → "www.google.com"

`document.querySelector("a").setAttribute("href",
"www.bing.com");`
is attribute ki value change
kardi
ab click kare pe bing khulega