DOM MANUPULATION

DOM = Document Object Model

window :- window is an object (global object in browser)
- that contain a web page.
- All global variables, function & object are properties of window.

⇒ console.log (window); // logs the entire window object.

Note :- In node.js there is no window object, because its not running in browser.

Document :-
- document is the property of window.
- document or window.document ⇒ same
- provides all methods to acess & manipulate HTML element.
- it repersent HTML document loaded in element.

Note :- In Node.js
there is no window or document, as there's no browser.

- console.dir (object); - it is a method used to display an interactive list of properties of js object.
  - particularly used for exploring DOM element & deeply nested objects.

eg:- console.dir (document);

Node :- - In DOM , everything in HTML is reporsented as node.

- Nodes for tree like structure
- each piece of content (tags, text, comment) is a node.

DOM Nodes type :-

- Element Node	: HTML tags	: Value : 1
- Text Node	: text inside element	: value : 3
- Commen Node	: HTML comment	: 8
- Document Node	: entire document	: 9
- Document Type Node	: <! DOCTYPEE —> Dekleration	: 10

- document. base URI ⇒ gives base URL of websit
- document.links ⇒ gives all links. in document
  - links are not array its HTML Collection
  - can act as array (only Indexing)
    document.links (2)
- document.getElementById (' Id ") ⇒ gives tag of that id.
- document.getElementById('Id'). innerHTML = "~~<h1>~~ <tags> ---- content ... </tags>"

document.
- getElement ById ('title'). - gives the ~~who~~ element with id attribute

- ~~get~~ document.getElement By Id ('title').class Names.
  - returns value of class attribute

- ~~document.getE~~

- set Attribute ("class", 'test');
  - set class to test
  - it overwrite ~~the~~ if class is present earlier.

- Storing element into a constant variable.
  const title = document.getElement ById ('title');

- Styling the element.
  - title.style.backgroundColor = "Orange".
  - title.style.borderRadius = "15px".

- To get text content of element.
  ~~[illegible]~~ • title.innerText - gives visible text only
  - ignore hidden text (display: none)
  - ~~title~~.textContent - returns all text inside the element
  - .innerHTML - Returns HTML code inside the element with tags.

* Query Selector :-

are modern way to select element in DOM.

1. .querySelector() - Return the first element that matches the given css selector.

Eg:- document.querySelector('-')

- #title → select element with id
- .msg → select element with class = "msg".
- p → Select 1st <p> element.

2. querySelectorAll() - Returns all element that match the selector

- Returns in node list

node list :- array like list of DOM elements.

- for each loop can be used.
- node list should be accessed using index.

* .getElementsByClassName ('listItem');

⇒ returns HTML collection.

• Eg:- const tempList = document.getElementByClassName ('ListItem').

* converts HTML collection to Array

⇒ Array.from (Name')

Eg:- const convertedList = Array.from(tempList)

Now we can use it as a Array