Agenda

- Array
- DOM

Array

- An array in JavaScript is a special variable that can hold multiple values.
- Arrays allow you to store, access, and manipulate lists of data efficiently.
- array declaration can be done in two ways:
- 1. Using Square Brackets (Recommended)
- 2. Using the Array Constructor

```
let fruits = ["Apple", "Banana", "Mango"];
let fruits = new Array("Apple", "Banana", "Mango");
```

- Square brackets [] are preferred because they are more concise.
- Array elements are accessed using index numbers, starting from 0.

Window Object

- It represents an open window in the browser. It is browser's object(not JS object) which is created automatically
- It is a global object with lot of properties and methods

DOM (Document Object Model)

- When a webpage is loaded the browser creates DOM of the page
- It is the data representation of the objects that comprise the structure and content of a document on the web.
- DOM represents an HTML document in memory
- The DOM represents the document as nodes and objects so that programming languages can interact with the page.
- In both cases, it is the same document but the Document Object Model (DOM) representation allows it to be manipulated.
- console.dir(document) will display all the properties and methods from the document
- It is a tree like structure (window-> document -> html -> and all its sub nodes)

DOM Manipulation

Selection

- 1. Selecting with id
 - document.getElementById("myId") (#)
- 2. Selecting with class
 - o document.getElementsByClassName("myClass") (.)

- returns HTML collection an array of objects
- 3. Selecting with tag
 - document.getElementsByTagName("tagName")
 - o returns HTML collection an array of objects
- 4. Query Selector
 - o used to select the id, name and class automatically
 - document.querySelector("myId/myClass/tag")
 - returns first element
 - document.querySelectorAll("myId/myClass/tag")
 - returns a NodeList

Properties

- 1. tagName
 - o returns tag for element nodes
- 2. innerText
 - o returns text content of the element and all its children
 - It represents only the text part
- 3. innerHTML
 - returns the plain text or html contents in the elements
 - It represents text as well as any element/tag inside sit.
- 4. textContent
 - returns textual content even for hidden elements

Attribute

- 1. getAttribite("attr")
 - o to get the attribute value
- 2. setAttribute("attr",value)
 - o to set the attribute value

Style

node.style - It helps to style the elements i.e apply css on it

Insert elements

- 1. node.append(e)
 - o add at the end of the node (inside)
- 2. node.prepend(e)
 - o add at the start of the node (inside)
- 3. node.before(e)
- add before the node (outside)
- 4. node.after(e)
- add after the node (outside)

Delete elements

- node.delete(e)
 - Used to delete the node

