DOM (Document Object Model) Cheat Sheet

1) DOM Nodes

- Document Node: Pura HTML document ka root node.
- Element Node: HTML tags jaise , .
- Text Node: Tag ke andar ka text.
- Attribute Node: Tag ke attributes jaise id, class.
- Comment Node: HTML comments.

2) Selecting Elements

- getElementById('id') → single element
- getElementsByClassName('class') → HTMLCollection (live list)
- getElementsByTagName('tag') → HTMLCollection
- querySelector('selector') → first match
- querySelectorAll('selector') → NodeList (array-like)

3) Modifying Elements

- innerText / textContent → text change
- innerHTML → HTML content change
- element.style.property → CSS change
- element.setAttribute('id','newId') / getAttribute('class')

4) Creating & Removing Elements

- document.createElement('tag') → new element
- appendChild / prepend → add element
- removeChild → remove element
- replaceChild → replace element

5) Events & addEventListener

- Mouse Events: click, dblclick, mouseover, mouseout
- Keyboard Events: keydown, keyup, keypress
- Form Events: submit, change, focus

- Window Events: load, resize, scroll
- Syntax: element.addEventListener('event', function)

6) Event Object

- event.target → element jahan event hua
- event.type → event type
- event.clientX / clientY → mouse position

7) DOM Traversing

- parentNode → parent element
- children → child elements
- firstElementChild / lastElementChild
- nextElementSibling / previousElementSibling

8) Class & Attribute Manipulation

- element.classList.add('active')
- element.classList.remove('active')
- element.classList.toggle('active')

9) Dynamic DOM + Loops

- for loop ke sath elements create karna
- document.body.appendChild(newElement)

10) DOM & Forms / Input

- element.value → input value
- focus() / blur() → input focus control
- submit event → form submit

Tips for Practice

- Mini-projects: Counter button, Todo list, Color changer, Image gallery
- Console.log() ka use karke elements explore karo
- Live server pe run karo taake changes turant dikhai dein