Java Script.

1. <u>document.getElementById()</u>
   - purpose → select an HTML element by id attribute.
   - example →
     const element = document.getElementById('about-text');

2. <u>ClassList.toggle()</u>
   - Purpose - Adds or removes class from an element.
   - Example →
     element.classList.toggle('visible');

3. <u>event.target</u>
   - Purpose → Refers to the element that triggered the event (e.g., a button click)
   - Example →
     event.target.classList.add('active').

4. <u>addEventListener()</u>
   - Purpose → Attaches an event handler to an element.
   - example →
     window.addEventListener('scroll', () => {
       // code to execute when scroll event
       occurs });

5. <u>window.innerHeight</u>
   - Purpose → Returns the height of the window's viewport.
   - Example →
     if (section.getBoundingClientRect().top < window.inner-
     Height - 100) { // code when section is visible }.

6. <u>querySelectorAll()</u>
   - Purpose → Selects all elements that match a specified CSS selector.
   - example →
     const sections = document.querySelectorAll('.section');

class List . add ()
- Purpose → Adds one or more classes to an element.
- Example →

document. getElementById (tabId). classList.add ('active');

8. ClassList.remove ()
- Purpose → Removes one or more classes from an element.
- Example →

element. classList.remove ('active');

9. Scroll () Event
- Purpose → This event is triggered when the user scrolls the page.
- Example →

```
window. addEventListener ('scroll', () => {
//code to execute on scroll });
```

10. SetTimeout ()
- Purpose → Executes a func. after a specified delay.
- Example →

```
setTimeout (() => {
    alert ("Time's up!"); }, 3000);
```

11. Const and let
- Purpose → Declares variables.
  - const for variables that don't change.
  - let for variables that may change.
- Example →

```
const name = 'Abhinav'
let age = 20;
```

12. for Each ()
- Purpose → Executes a function for each element in an array.
- Example →

```
tabs. forEach (tab => tab. classList. remove ('active'));
```

13. **window. getBoundingClientRect()**
   - Purpose → Returns an object with information about the size of an element and its position relating to the viewport
      - Example →
         section.getBoundingClientRect().top.

14. **HTMLFormElement. submit()**
   - Purpose → Submits the form programmatically.
   - Example:
         document.getElementById('contact form').submit();

15. **CSS Class Manipulation**
   - Purpose: Dynamically modify styles via adding/removing classes
   - Example →
         event.target.classList.add('active');