

Assessment Test – Set 1

HTML & CSS

1. Create a simple HTML structure with a header, main, and footer. Inside main, add two sections.
2. Difference between inline and block-level elements with example code.
3. Build a navigation bar using `<nav>` with three links (Home, About, Contact).
4. Write HTML code to create a table with 3 rows & 3 columns, add header row.
5. Create an ordered list inside an unordered list.
6. What is the difference between `` and `` tags? Give example.
7. Create a form with username (text), email (email), and password (password) fields. Make all required.
8. Write CSS to center a div horizontally & vertically inside the page using Flexbox.
9. Explain the Box Model and show CSS code where margin=10px, padding=15px, border=2px solid black.
10. Write a hover effect CSS that changes button background from blue → green smoothly in 0.5s.

JavaScript Basics

11. Write a JS program to check if a number is even or odd.
12. Difference between var, let, const with example.
13. Write a function that takes 2 numbers and returns their sum. Call it in console.
14. Given an array [10,20,30,40], use `.map()` to create [20,40,60,80].
15. Write a JS function that finds the largest number in an array.
16. Explain difference between `==` and `===` with example.
17. Write a program using switch to print day of the week (1=Sunday, 2=Monday,...).
18. Create an object with keys: name, age, course. Print each property.
19. Write a function using default parameter: `greet(name = "Guest")`.
20. Write a program using template literals to display: "Hello John, your score is 95/100".

DOM & Events

21. Create a button in HTML. On click, change the background color of the page to yellow.
22. Write JS to select an element with `id="title"` and change its text to "Welcome Students".
23. Add an input field. On typing, show the input text live in a `<p>` below it.
24. Add a form with email & password. On submit, prevent default and print values in console.
25. Create a counter app with two buttons: + and -. Update the value in DOM.
26. Add 5 `` items in HTML. Use JS to change the color of only the 3rd ``.
27. Create a div with `class="box"`. On mouse hover, change its width from 100px → 200px using JS.
28. Use `setInterval` to show current time in hh:mm:ss format inside a `<p>`.
29. Store a user's name in `localStorage` and retrieve it after refresh.
30. Write a program with `async/await` that fetches data from <https://jsonplaceholder.typicode.com/users> and logs names.