JavaScript Assessment Tasks (MERN Job Training)

This document contains JavaScript array method tasks, const-related tasks, and DOM tasks to evaluate a student's JavaScript understanding without logic-heavy problems.

Part 1: Array Methods Tasks

Use the following array for most tasks:
const users = [{ id: 1, name: "Anu", age: 22, role: "student", active: true }, { id: 2, name: "Meena", age: 25, role: "developer", active: false }, { id: 3, name: "Riya", age: 21, role: "student", active: true }, { id: 4, name: "Kiran", age: 28, role: "trainer", active: true }];

1   Use forEach to print each user name.
2   Use map to create a new array of only user names.
3   Use map to create a new array of objects with name and role only.
4   Use filter to get all active users.
5   Use filter to get users whose role is 'student'.
6   Use find to get the user with id 3.
7   Use reduce to count total users.
8   Use reduce to create an array of user names.
9   Use some to check if any user is inactive.
10   Use every to check if all users are active.
11   Sort users by age in ascending order.
12   Use slice to get first two users.
13   Use splice to remove one user from index 1.

Part 2: const Tasks

1   Declare a const variable and try to reassign it. Explain the error.
2   Create a const array and add a new value to it.
3   Remove a value from the const array and explain why it works.
4   Create a const object and update one property.
5   Add a new property to the const object.
6   Try replacing the entire const object and explain the result.
7   Use const inside a for...of loop and explain why it works.

Part 3: DOM Tasks

1   Select an element by id and change its text.
2   Select elements by class name.
3   Select all li elements using querySelectorAll.
4   Change background color of a div using JavaScript.
5   Create a new li element and append it to a ul.
6   Add a click event to a button.
7   On button click, change text inside a div.
8   Get value from an input field and display it in a span.
9   Add, remove, and toggle a class using classList.
10   Prevent form reload using preventDefault and read input values.