

Code Assessment

Q.1 Write a JavaScript function that removes duplicate numbers from an array and returns a sorted array in ascending order.

Input Example:

```
removeDuplicates([4, 2, 5, 2, 3, 4, 1]);
```

Expected Output:

```
[1, 2, 3, 4, 5]
```

Q.2 Create a React component that displays the following list of fruits:

```
["Apple", "Banana", "Cherry", "Date", "Elderberry", "Fig", "Grapes"]
```

a. Include an input field at the top for search.

b. As the user types into the input:

1) Filter the fruit list to only show items that contain the typed text.

2) Filtering should be case-insensitive.

3) If no match is found, display: No results found.

c. Expected Behavior:

1) Typing "a" should show ["Apple", "Banana", "Grapes"].

2) Typing "ch" should show ["Cherry"].

3) Typing "xyz" should show No results found.

Q.3 Create a simple React component called `TodoList` with the following features:

Input box to type a task

A button to add the task

Display a list of added tasks below the input