Week2

Short Answer Questions

1. Can you explain how hoisting affects function declarations and function expressions?
2. What is destructuring in JavaScript? Explain what is array destructuring and object destructuring
3. Can you name the new ES6 features by now?
4. What is a DOM event?
5. Explain event propagation. How many phases are there? In what order does it occur? What do you do to prevent propagation?
6. What is event bubbling and What is event capturing?
7. What are closures? Can you give me an example?
8. What is currying?
9. What is asynchronous code in JavaScript? How does JavaScript achieve asynchronous code?
10. What is the callback hell?
11. What does the event loop do? What data structures does it use?
12. What is a Promise?
13. What is promise chaining?
14. Explain the three states of a Promise.
15. What is async & await? How do we use them?
16. Explain Microtasks and Macrotasks in the Event Loop.
17. How to handle asynchronous operations

Coding

1. Given the sample UI, implement the following product management page with styling that matches as closely as possible.

- The user can fill out the fields and click “Add New” to create a new product in the table.
- However, if any of the input fields are empty, no product should be created.
- The user can delete existing products in the table by clicking the delete button.
- By default, when the user loads the page for the first time, there should be these 3 items in the table as shown below

Product Name	Product Category	Product Price	Action
M&M	Snacks	$1.99	Delete
Table	Furniture	$199	Delete
Kale	Vegetables	$2.49	Delete

Add Product

Product Name: Product Category: Product Price: Add New

Week2

maintaining the relative order of the non-zero elements.

Note that you must do this in-place without making a copy of the array.

Example 1:

```
Input: nums = [0,1,0,3,12]
Output: [1,3,12,0,0]
```

Example 2:

```
Input: nums = [0]
Output: [0]
```