JS Arrays - Practice Questions

1. Add an element

Question: Add `"Mango"` to the end of an array.

Input:

```js
const fruits = ["Apple", "Banana", "Orange"];
```

Expected Output:

```js
["Apple", "Banana", "Orange", "Mango"]
```

2. Remove the last element

Question: Remove the last element from the array.

Input:

```js
const numbers = [10, 20, 30, 40];
```

Expected Output:

```js
[10, 20, 30]
40
```

3. Remove the first element

Question: Remove the first element from the array.

Input:

```js
const names = ["Alice", "Bob", "Charlie"];
```

Expected Output:

```
["Bob", "Charlie"]
"Alice"
```

4. Add an element at the beginning.

Question: Add "John" at the beginning of an array.

Input:

```
const students = ["Alice", "Bob"];
```

Expected Output:

```
["John", "Alice", "Bob"]
```

5. Loop through an array

Question: Print each element of an array.

Input:

```
const colors = ["Red", "Green", "Blue"];
```

Expected Output:

```
Red
Green
Blue
```

6. Create a new array with map().

Question: Double each number in an array.

Input:

```
const numbers = [2, 4, 6];
```

Expected Output:

```
[4, 8, 12]
```

7. Filter numbers greater than 5 using filter()

Question: Return numbers greater than 5.

Input:

```
const numbers = [3, 7, 1, 9, 4, 10];
```

Expected Output:

```
[7, 9, 10]
```

8. Extract a portion of an array using slice()

Question: Extract first three elements.

Input:

```
const numbers = [5, 10, 15, 20, 25];
```

Expected Output:

```
[5, 10, 15]
```

9. Find if an array includes a value using includes()

Question: Check if "Banana" exists in the array.

Input:

```
const fruits = ["Apple", "Banana", "Cherry"];
```

Expected Output:

```
true
```

10. Find the index of an element using indexOf()

Question: Find the index of `"Cherry"`.

Input:

```
const fruits = ["Apple", "Banana", "Cherry", "Date"];
```

Expected Output:

```
2
```

JS Arrays - Assignment Questions

1. Remove two elements using splice()

Question: Remove `"Banana"` and `"Cherry"` from the array.

Input:

```
const fruits = ["Apple", "Banana", "Cherry", "Date"];
```

Expected Output:

```
["Apple", "Date"]
```

2. Insert elements using splice()

Question: Insert `"Grapes"` at index 2.

Input:

```
const fruits = ["Apple", "Banana", "Cherry"];
```

Expected Output:

```
["Apple", "Banana", "Grapes", "Cherry"]
```

3. Find even numbers using filter()

Question: Extract even numbers.

Input:

```
const numbers = [1, 2, 3, 4, 5, 6, 7, 8];
```

Expected Output:

```
[2, 4, 6, 8]
```

4. Multiply all elements using map()

Question: Multiply all elements by 3.

Input:

```
const numbers = [1, 2, 3, 4, 5];
```

Expected Output:

```
[3, 6, 9, 12, 15]
```

15. Find the largest number in an array using reduce()

Question: Find the max value.

Input:

```
const numbers = [10, 25, 40, 5, 60];
```

Expected Output:

```
60
```