

ARRAY METHODS

Task 1: Add Item to Cart

Objective: Add an item into a shopping cart using push()

Instructions:

1. Create an empty array named cart.
2. Take input from the user for product name.
3. When the user clicks the “Add to Cart” button, use push() to add the product to the array.
4. Display all the items in the cart on the screen.

Hint: Use join() to show cart items separated by commas.

Expected Output:  Cart: Mouse, Keyboard

Task 2: Remove the Last Added Item

Objective: Remove the last item using pop()

Instructions:

1. Use the same cart array from Task 1.
2. Add a button named “Remove Last”.
3. When clicked, remove the last product using pop().
4. Update the displayed cart list.

Expected Output: Before: Mouse, Keyboard After: Mouse

Task 3: Remove the First Notification

Objective: Remove the first element from the list using shift()

Instructions:

1. Create an array named notifications = ["Welcome!", "New Offer!", "Your Order is Shipped!"]
2. Display all notifications.
3. Add a button named “Remove Oldest”.
4. When clicked, remove the first notification using shift().

Expected Output: Click 1 → removes “Welcome!” Click 2 → removes “New Offer!”

Task 4: Add New Notification at the Top

Objective: Add new notifications at the beginning using unshift()

Instructions:

1. Use the notifications array from Task 3.
2. Take input from the user for a new notification.
3. When clicked, add the new notification to the beginning using unshift().
4. Display the updated list.

Expected Output: After adding “Flash Sale Today!” → Flash Sale Today!, Welcome!, New Offer!, Your Order is Shipped!

Task 5: Combine Two Categories

Objective: Combine two arrays using concat()

Instructions:

1. Create two arrays:
 - electronics = ["TV", "Laptop", "Speaker"]
 - mobiles = ["iPhone", "Samsung", "Pixel"]
2. Combine them into a new array using concat().
3. Display all combined products.

Expected Output: TV, Laptop, Speaker, iPhone, Samsung, Pixel

Task 6: Find Product Position

Objective: Find first and last index using indexOf() and lastIndexOf()

Instructions:

1. Create an array items = ["Mouse", "Keyboard", "Mouse", "Monitor"].
2. Find the first and last occurrence of "Mouse" using both methods.
3. Display both index numbers.

Expected Output: First Mouse Index → 0 Last Mouse Index → 2

Task 7: Check Availability

Objective: Check if a payment method exists using includes()

Instructions:

1. Create an array paymentMethods = ["UPI", "Card", "Cash"].
2. Take user input for the payment method.
3. If it exists → show "✓ Accepted", otherwise "✗ Not Supported".

Expected Output: Input = Card → ✓ Accepted Input = PayPal → ✗ Not Supported

Task 8: Display Skills or Tags

Objective: Join elements into one string using join()

Instructions:

1. Create an array skills = ["HTML", "CSS", "JavaScript"].
2. Use join(" | ") to display all skills in one line.

Expected Output: HTML | CSS | JavaScript

Task 9: Show Orders in Reverse

Objective: Reverse the order of elements using reverse()

Instructions:

1. Create an array orders = ["Order1", "Order2", "Order3"].
2. Display the original order.
3. Reverse it using reverse() and display again.

Expected Output: Before: Order1, Order2, Order3 After: Order3, Order2, Order1

Task 10: Sort Products by Price

Objective: Sort numeric values using sort()

Instructions:

1. Create an array prices = [45000, 25000, 70000, 32000].
2. Sort them in ascending order using

```
prices.sort(function(a, b) {  
    return a - b;  
});
```

3. Display the sorted prices.

Expected Output: 25000, 32000, 45000, 70000

Task 11: Show Limited Products per Page

Objective: Display part of an array using slice()

Instructions:

1. Create an array products = ["TV", "Laptop", "Phone", "Watch", "Tablet"].
2. Show first 2 items as "Page 1" → use slice[0, 2]
3. Show next 2 as "Page 2" → use slice[2, 4]

Expected Output:Page 1 → TV, LaptopPage 2 → Phone, Watch

❖ Task 12: Edit Item in Cart

Objective: Replace an element using splice()

Instructions:

1. Display the new array.

Expected Output:Mouse, Gaming Keyboard, Monitor