**TOPIC:** ADD TO CART
**WEEK:** 5
**COURSE INSTRUCTOR:** ABDULLAH MAHMOOD

# *ADD TO CART*
# *HTML*

```html
add.html > html > body > div.product > h2
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>Shopping Cart</title>
7        <link rel="stylesheet" href="add.css">
8    </head>
9    <body>
10       <div class="product">
11           <h2>Product 1</h2>
12           <p>Price: $25</p>
13           <button class="add-to-cart" data-name="Product 1" data-price="25">Add to Cart</button>
14       </div>
15
16       <div class="product">
17           <h2>Product 2</h2>
18           <p>Price: $50</p>
19           <button class="add-to-cart" data-name="Product 2" data-price="50">Add to Cart</button>
20       </div>
21
22       <div class="cart">
23           <div class="cart-icon">
24               <span id="cart-count">0</span>
25           </div>
26           <h3>Shopping Cart</h3>
27           <ul id="cart-items">
28               <!-- Cart items will appear here -->
29           </ul>
30           <p>Total: $<span id="total-price">0</span></p>
31           <button id="checkout" disabled>Checkout</button>
32       </div>
33
34       <script src="add.js"></script>
35   </body>
36   </html>
37
```

## 1. data-name and data-price (HTML Attributes):

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These are custom attributes used to store additional information about the products. The **data- attributes** allow you to store custom data on any HTML element. You can retrieve this data using JavaScript to perform actions like adding products to a cart, calculating the total price, or displaying the name of the product.

> **data-name:** Stores the **name** of the product. This is useful for displaying the product's name in the cart or elsewhere on the page.
>
> Example: <button class="add-to-cart" data-name="Product 1" data-price="25">Add to Cart</button>
>
> **data-price:** Stores the **price** of the product. This is needed when you calculate the total price of the items in the cart.
>
> Example: <button class="add-to-cart" data-name="Product 1" data-price="25">Add to Cart</button>

*CSS*

```css
1    body {
2        font-family: Arial, sans-serif;
3        display: flex;
4        justify-content: space-around;
5        margin-top: 20px;
6    }
7
8    .product {
9        border: 1px solid ▢#ccc;
10       padding: 15px;
11       text-align: center;
12       width: 200px;
13   }
14
15   .cart {
16       margin-top: 20px;
17       width: 200px;
18       padding: 15px;
19       border: 1px solid ▢#ccc;
20       position: fixed;
21       right: 10px;
22       top: 100px;
23   }
```

```css
.cart-icon {
    position: relative;
    margin-bottom: 10px;
}

.cart-icon span {
    position: absolute;
    top: -5px;
    right: -5px;
    background-color: ■red;
    color: ■white;
    border-radius: 50%;
    padding: 5px 10px;
    font-weight: bold;
}

button {
    padding: 10px;
    background-color: ■#28a745;
    color: ■white;
    border: none;
    cursor: pointer;
}

button:disabled {
    background-color: ■#ccc;
}

button:hover {
    background-color: ■#218838;
}
```

# JAVA SCRIPT

## Step 1: Selecting All "Add to Cart" Buttons.

```javascript
// Get all "Add to Cart" buttons
const addToCartButtons = document.querySelectorAll('.add-to-cart');
let cart = [];
let totalPrice = 0;
```

## Function to Update the Cart Display

```javascript
// Function to update cart display
function updateCart()
{
    const cartItemsContainer = document.getElementById('cart-items');
    const totalPriceElement = document.getElementById('total-price');
    const checkoutButton = document.getElementById('checkout');
    const cartCount = document.getElementById('cart-count');
```

· **getElementById('cart-items') → Selects the <ul> or <div> where cart items will be displayed.**

· **getElementById('total-price') → Selects the <span> or <p> that shows the total price.**

· **getElementById('checkout') → Selects the "Checkout" button.**

· **getElementById('cart-count') → Selects the cart icon count display.**

## Clearing the Current Cart Display

```javascript
    // Clear current cart display
    cartItemsContainer.innerHTML = '';
```

```javascript
// Add items to the cart list
cart.forEach(item =>
    {
    const listItem = document.createElement('li');
    listItem.textContent = `${item.name} - $${item.price}`;
    cartItemsContainer.appendChild(listItem);
});
```

- Loops through the cart array using .forEach().

- Creates a new <li> element (document.createElement('li')).

- Sets its text to "Item Name - $Price".

- Appends it to the cart-items container.

```javascript
// Update total price
totalPriceElement.textContent = totalPrice.toFixed(2);

// Update cart icon count
cartCount.textContent = cart.length;

// Enable checkout button if there's at least one item
checkoutButton.disabled = cart.length === 0;
}
```

- Updates the total price display.

- toFixed(2) ensures **two decimal places** (e.g., $9.99 instead of $9.9999).

```
function addToCart(event)
{
    const button = event.target;
    const itemName = button.getAttribute('data-name');
    const itemPrice = parseFloat(button.getAttribute('data-price'));

    // Add item to cart array
    cart.push({ name: itemName, price: itemPrice });

    // Update total price
    totalPrice += itemPrice;

    // Update cart display
    updateCart();
}
```

· event.target → Refers to the button that was clicked.

· button.getAttribute('data-name') → Gets the data-name attribute from the button (e.g., "Laptop").

· button.getAttribute('data-price') → Gets the data-price attribute (e.g., "299.99").

· parseFloat() → Converts the price from a **string** to a **number**.

# Pushes the new item (name and price) into the cart array.

```
// Add event listener to each "Add to Cart" button
addToCartButtons.forEach(button => {
    button.addEventListener('click', addToCart);
});
```

· Loops through each "Add to Cart" button.

· Adds an **event listener** ('click' event) to trigger addToCart().

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