

1) Write a program to create add products and display products in an ecommerce store. The products should include product name, price, description etc. Also implement search products feature to search items from data structure or table containing products.

Html code:

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
  <h1>E-Commerce Store</h1>

  <!-- Product Form -->
  <div id="product-form">
    <h2>Add Product</h2>
    Product Name:<input type="text" id="productName">
    Price:<input type="number" id="productPrice">
    Description:<textarea id="productDescription"></textarea>
    <button onclick="addProduct()" id="b1">Add Product</button>
  </div>

  <!-- Product Search -->
  <div id="product-search">
    <h2>Search</h2>
    <input type="text" id="searchInput" placeholder="Search by name">
    <button onclick="searchProducts()" id="b2">Search</button>
  </div>

  <!-- Product List -->
  <div id="product-list">
    <h2>Product List</h2>
    <ul id="products">
      <!-- Product items will be displayed here dynamically -->
    </ul>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

## Css Code:

```
/* styles.css */
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 20px;
    background-color: #f0f0f0;
}

h1, h2 {
    color: #333;
}

.button {
    padding: 10px 20px;
    color: #fff;
    border: none;
    cursor: pointer;
    transition: background-color 0.2s;
}

#b1 {
    background-color: #318d06;
}

#b2 {
    background-color: #007BFF;
}

.button:hover {
    background-color: #88bef8;
}

#product-form, #product-search, #product-list {
    margin-bottom: 20px;
}

/* Adjusted input and textarea sizes */
input[type="text"], input[type="number"], textarea {
    width: 100%; /* Make the inputs and textarea full width */
    padding: 8px; /* Reduce padding for a smaller size */
    margin: 5px 0;
    border: 1px solid #ccc;
    border-radius: 4px;
}

ul {
    list-style-type: none;
```

```

        padding: 0;
    }

    li {
        border: 1px solid #ddd;
        padding: 10px;
        margin: 5px 0;
        background-color: #fff;
    }

    li strong {
        color: #333;
        font-size: 18px;
    }

    li span.price {
        color: #318d06;
        font-size: 16px;
        font-weight: bold;
    }

    li p.description {
        color: #666;
        font-size: 14px;
    }

```

#### JS Code:

```

// Define an array to store products
let products = [];

// Function to add a product
function addProduct() {
    const productName = document.getElementById("productName").value;
    const productPrice = document.getElementById("productPrice").value;
    const productDescription = document.getElementById("productDescription").value;

    if (productName && productPrice && productDescription) {
        const product = {
            name: productName,
            price: productPrice,
            description: productDescription
        };

        products.push(product);
        displayProducts();
    }
}

```

```

        // Clear input fields
        document.getElementById("productName").value = "";
        document.getElementById("productPrice").value = "";
        document.getElementById("productDescription").value = "";
    } else {
        alert("Please fill in all fields.");
    }
}

// Function to display products
function displayProducts(filteredProducts = products) {
    const productList = document.getElementById("products");
    productList.innerHTML = "";

    for (let i = 0; i < filteredProducts.length; i++) {
        const product = filteredProducts[i];
        const li = document.createElement("li");
        li.innerHTML = `<strong>${product.name}</strong><br>Price:
        ${product.price}<br>${product.description}`;
        productList.appendChild(li);
    }
}

// Function to search products by name
function searchProducts() {
    const searchInput = document.getElementById("searchInput").value.toLowerCase();
    const filteredProducts = products.filter(product =>
    product.name.toLowerCase().includes(searchInput));
    displayProducts(filteredProducts);
}

```

**2) Write a program to display a product list and add to cart features for the products in an ecommerce store. Assuming that the list of products is already in a data structure or table for products. Also display the items in the cart list.**

**Html code:**

```

<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
    <h1>E-Commerce Store</h1>

```

```

<!-- Product List -->
<div id="product-list">
  <h2>Product List</h2>
  <ul id="products">
    <!-- Product items will be displayed here dynamically -->
  </ul>
</div>

<!-- Cart -->
<div id="cart">
  <h2>Shopping Cart</h2>
  <ul id="cart-items">
    <!-- Cart items will be displayed here dynamically -->
  </ul>
  <button onclick="checkout()">Checkout</button>
</div>

<script src="script.js"></script>
</body>
</html>

```

#### Css Code:

```

body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 20px;
}

h1, h2 {
  color: #333;
}

ul {
  list-style-type: none;
  padding: 0;
}

li {
  border: 1px solid #ddd;
  padding: 10px;
  margin: 5px 0;
  background-color: #fff;
}

li strong {

```

```

        color: #333;
        font-size: 18px;
    }

    li span.price {
        color: #318d06;
        font-size: 16px;
        font-weight: bold;
    }

    /* Cart styles */
    #cart {
        margin-top: 20px;
        border: 1px solid #ddd;
        padding: 10px;
        background-color: #f5f5f5;
    }

    #cart button {
        padding: 10px 20px;
        background-color: #007bff;
        color: #fff;
        border: none;
        cursor: pointer;
        margin-top: 10px;
    }

    #cart button:hover {
        background-color: #0056b3;
    }

```

#### JS Code:

```

// Sample product data (you can replace this with your own product data)
const products = [
    { id: 1, name: "Shirt", price: 10 },
    { id: 2, name: "T-Shirt", price: 5 },
    { id: 3, name: "Jacket", price: 60 }
];

const cartItems = [];

// Function to display products
function displayProducts() {
    const productList = document.getElementById("products");
    productList.innerHTML = "";

```

```

    for (const product of products) {
        const li = document.createElement("li");
        li.innerHTML = `<strong>${product.name}</strong><br>Price:
        ${product.price}<br><button          onclick="addToCart(${product.id})">Add          to
        Cart</button>`;
        productsList.appendChild(li);
    }
}

// Function to add a product to the cart
function addToCart(productId) {
    const product = products.find(p => p.id === productId);
    if (product) {
        cartItems.push(product);
        displayCartItems();
    }
}

// Function to display cart items
function displayCartItems() {
    const cartItemsList = document.getElementById("cart-items");
    cartItemsList.innerHTML = "";

    for (const item of cartItems) {
        const li = document.createElement("li");
        li.innerHTML = `${item.name} - ${item.price}`;
        cartItemsList.appendChild(li);
    }
}

// Function to handle the checkout (you can customize this)
function checkout() {
    alert("Checkout functionality not implemented in this example.");
}

// Initial display
displayProducts();

```

**3) Write a program to display a cart list and empty cart features in an ecommerce store. Assuming that the list of products is already in a data structure or table for cart. Also display the items in the cart list.**

### Html code:

```
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
  <h1>E-Commerce Store</h1>

  <!-- Cart -->
  <div id="cart">
    <h2>Shopping Cart</h2>
    <ul id="cart-items">
      <!-- Cart items will be displayed here dynamically -->
    </ul>
    <button onclick="emptyCart()">Empty Cart</button>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

### Css Code:

```
/* styles.css */
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 20px;
}

h1, h2 {
  color: #333;
}

ul {
  list-style-type: none;
  padding: 0;
}

li {
  border: 1px solid #ddd;
  padding: 10px;
  margin: 5px 0;
  background-color: #fff;
}
```



```

li strong {
  color: #333;
  font-size: 18px;
}

li span.price {
  color: #318d06;
  font-size: 16px;
  font-weight: bold;
}

/* Cart styles */
#cart {
  margin-top: 20px;
  border: 1px solid #ddd;
  padding: 10px;
  background-color: #f5f5f5;
}

#cart button {
  padding: 10px 20px;
  background-color: #007bff;
  color: #fff;
  border: none;
  cursor: pointer;
  margin-top: 10px;
}

#cart button:hover {
  background-color: #0056b3;
}

```

#### JS Code:

```

// Sample cart data (you can replace this with your own cart data)
const cartItems = [
  { id: 1, name: "Product 1", price: 10 },
  { id: 2, name: "Product 2", price: 20 },
  { id: 3, name: "Product 3", price: 30 }
];

// Function to display cart items
function displayCartItems() {
  const cartItemsList = document.getElementById("cart-items");
  cartItemsList.innerHTML = "";

  for (const item of cartItems) {
    const li = document.createElement("li");
    li.innerHTML = `${item.name} - ${item.price}`;
  }
}

```

```

        cartItemsList.appendChild(li);
    }
}

// Function to empty the cart
function emptyCart() {
    cartItems.length = 0; // Clear the cartItems array
    displayCartItems(); // Update the cart display
}

// Initial display
displayCartItems();

```

**4) Write a program to implement add to cart and checkout features of an ecommerce store. Assuming that the list of products is already in a data structure or table for products. Also display the list of orders after checkout operation.**

**Html code:**

```

<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
    <h1>E-Commerce Store</h1>

    <!-- Product List -->
    <div id="product-list">
        <h2>Product List</h2>
        <ul id="products">
            <!-- Product items will be displayed here dynamically -->
        </ul>
    </div>

    <!-- Cart -->
    <div id="cart">
        <h2>Shopping Cart</h2>
        <ul id="cart-items">
            <!-- Cart items will be displayed here dynamically -->
        </ul>
        <button onclick="checkout()">Checkout</button>
    </div>

    <!-- Order History -->
    <div id="order-history">
        <h2>Order History</h2>
        <ul id="orders">

```

```
        <!-- Order items will be displayed here dynamically -->
    </ul>
</div>

<script src="script.js"></script>
</body>
</html>
```

#### Css Code:

```
/* styles.css */
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 20px;
}

h1, h2 {
    color: #333;
}

ul {
    list-style-type: none;
    padding: 0;
}

li {
    border: 1px solid #ddd;
    padding: 10px;
    margin: 5px 0;
    background-color: #fff;
}

li strong {
    color: #333;
    font-size: 18px;
}

li span.price {
    color: #318d06;
    font-size: 16px;
    font-weight: bold;
}

/* Cart styles */
#cart {
    margin-top: 20px;
    border: 1px solid #ddd;
    padding: 10px;
```

```

        background-color: #f5f5f5;
    }

    #cart button {
        padding: 10px 20px;
        background-color: #007BFF;
        color: #fff;
        border: none;
        cursor: pointer;
        margin-top: 10px;
    }

    #cart button:hover {
        background-color: #0056b3;
    }

    /* Order history styles */
    #order-history {
        margin-top: 20px;
    }

    /* Order item styles */
    .order-item {
        border: 1px solid #ddd;
        padding: 10px;
        margin: 5px 0;
        background-color: #f5f5f5;
    }

```

#### JS Code:

```

// Sample product data (you can replace this with your own product data)
const products = [
    { id: 1, name: "Shirt", price: 10 },
    { id: 2, name: "Tshirt", price: 5 },
    { id: 3, name: "Jacket", price: 60 }
];

const cartItems = [];
const orderHistory = [];

// Function to display products
function displayProducts() {
    const productList = document.getElementById("products");
    productList.innerHTML = "";

    for (const product of products) {
        const li = document.createElement("li");
    }

```

```

        li.innerHTML = `<strong>${product.name}</strong><br>Price:
        ${product.price}<br><button onclick="addToCart(${product.id})">Add to
        Cart</button>`;
        productsList.appendChild(li);
    }
}

```

```

// Function to add a product to the cart
function addToCart(productId) {
    const product = products.find(p => p.id === productId);
    if (product) {
        cartItems.push(product);
        displayCartItems();
    }
}

```

```

// Function to display cart items
function displayCartItems() {
    const cartItemsList = document.getElementById("cart-items");
    cartItemsList.innerHTML = "";

    for (const item of cartItems) {
        const li = document.createElement("li");
        li.innerHTML = `${item.name} - ${item.price}`;
        cartItemsList.appendChild(li);
    }
}

```

```

// Function to perform checkout
function checkout() {
    if (cartItems.length === 0) {
        alert("Your cart is empty. Add items to the cart before checking out.");
        return;
    }
}

```

```

const orderTotal = cartItems.reduce((total, item) => total + item.price, 0);
const order = {
    items: [...cartItems],
    total: orderTotal
};

```

```

orderHistory.push(order);
cartItems.length = 0; // Clear the cart
displayCartItems();
displayOrderHistory();
}

```

```

// Function to display order history

```

```

function displayOrderHistory() {
  const orderHistoryList = document.getElementById("orders");
  orderHistoryList.innerHTML = "";

  for (const order of orderHistory) {
    const li = document.createElement("li");
    li.classList.add("order-item");
    li.innerHTML = `<strong>Order Total:  $$${order.total}</strong><br>Items:
${order.items.map(item => item.name).join(', ')}';
    orderHistoryList.appendChild(li);
  }
}

// Initial display
displayProducts();
displayOrderHistory();

```

**5) Write a program to view a product list and add to wish list features for the products in an ecommerce store. Assuming that the list of products is already in a datastructure or table for products. Also display the wish list.**

**Html code:**

```

<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
  <h1>E-Commerce Store</h1>
  <!-- Product List -->
  <div id="product-list">
    <h2>Product List</h2>
    <ul id="products">
      <!-- Product items will be displayed here dynamically -->
    </ul>
  </div>

  <!-- Wish List -->
  <div id="wish-list">
    <h2>Wish List</h2>
    <ul id="wish-list-items">
      <!-- Wish list items will be displayed here dynamically -->
    </ul>
  </div>

  <script src="script.js"></script>

```

```
</body>
</html>
```

**Css Code:**

```
body {
    font-family: Arial, sans-serif;
    margin: 0;
    padding: 20px;
}

h1, h2 {
    color: #333;
}

ul {
    list-style-type: none;
    padding: 0;
}

li {
    border: 1px solid #ddd;
    padding: 10px;
    margin: 5px 0;
    background-color: #fff;
}

li strong {
    color: #333;
    font-size: 18px;
}

li span.price {
    color: #318d06;
    font-size: 16px;
    font-weight: bold;
}

/* Wish List styles */
#wish-list {
    margin-top: 20px;
    border: 1px solid #ddd;
    padding: 10px;
    background-color: #f5f5f5;
}

/* Wish List item styles */
#wish-list-items li {
    background-color: #ffffcc; /* Yellow background for wish list items */
}
```

**JS Code:**

```
}

// Sample product data (you can replace this with your own product data)
const products = [
  { id: 1, name: "Shirt", price: 10 },
  { id: 2, name: "Tshirt", price: 20 },
  { id: 3, name: "Jacket", price: 30 }
];

const wishListItems = [];

// Function to display products
function displayProducts() {
  const productsList = document.getElementById("products");
  productsList.innerHTML = "";

  for (const product of products) {
    const li = document.createElement("li");
    li.innerHTML = `<strong>${product.name}</strong><br>Price:
    ${product.price}<br><button  onclick="addToWishList(${product.id})">Add  to  Wish
    List</button>`;
    productsList.appendChild(li);
  }
}

// Function to add a product to the wish list
function addToWishList(productId) {
  const product = products.find(p => p.id === productId);
  if (product) {
    wishListItems.push(product);
    displayWishListItems();
  }
}

// Function to display wish list items
function displayWishListItems() {
  const wishListItemsList = document.getElementById("wish-list-items");
  wishListItemsList.innerHTML = "";

  for (const item of wishListItems) {
    const li = document.createElement("li");
    li.innerHTML = `${item.name} - ${item.price}`;
    wishListItemsList.appendChild(li);
  }
}

// Initial display
displayProducts();
```