

AI ASSISTED CODING

ASSIGNMENT-14

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Task #1:

AI-Assisted Portfolio Website

Scenario:

A student wants to showcase their projects, skills, and contact details in a portfolio website. Instead of writing all code manually, they want to speed up the process using GitHub Copilot.

- Use Copilot to generate an HTML structure for a personal portfolio page (sections: Home, About, Projects, Contact).
- Ask Copilot to suggest responsive CSS styling for the layout (e.g., grid/flexbox).
- Customize Copilot's suggestions to add a hover effect on project cards

Prompt:

generate an HTML structure for a personal portfolio page (sections: Home, About, Projects, Contact).suggest responsive CSS styling for the layout (e.g., grid/flexbox).

add a hover effect on project cards give html css in same file.

Code generated:

```
ai_lab13 > ai_lab_14 > port.html > html > head > style > :root
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">
6      <title>Student Portfolio</title>
7      <style>
8          :root {
9              --primary: #7aa9e9;
10             --bg: #f4f4f4;
11             --text: #222;
12             --card-bg: #fff;
13             --hover: #264653;
14             --transition: 0.3s;
15         }
16         * {
17             margin: 0;
18             padding: 0;
19             box-sizing: border-box;
20             font-family: 'Segoe UI', Arial, sans-serif;
21         }
22         body {
23             background: var(--bg);
24             color: var(--text);
25             line-height: 1.6;
26         }
27         header {
28             background: var(--primary);
29             color: #fff;
30             padding: 2rem 0 1rem 0;
31             text-align: center;
32             position: sticky;
33             top: 0;
34             z-index: 100;
35         }
36         nav ul {
37             list-style: none;
38             display: flex;
39             justify-content: center;
40             gap: 2rem;
41             padding: 0;
42             margin-top: 1rem;
```

```
43     }
44     nav a {
45         color: #fff;
46         text-decoration: none;
47         font-weight: bold;
48         letter-spacing: 1px;
49         transition: color var(--transition);
50     }
51     nav a:hover {
52         color: #e9c46a;
53     }
54     main {
55         width: 90%;
56         max-width: 1200px;
57         margin: 2rem auto;
58         display: flex;
59         flex-direction: column;
60         gap: 3rem;
61     }
62     section {
63         background: var(--card-bg);
64         padding: 2rem;
65         border-radius: 12px;
66         box-shadow: 0 2px 10px rgba(0,0,0,0.05);
67     }
68     #projects .project-list {
69         display: grid;
70         grid-template-columns: repeat(auto-fit, minmax(260px, 1fr));
71         gap: 2rem;
72     }
73     .project-card {
74         background: #f9fafb;
75         border-radius: 10px;
76         box-shadow: 0 1px 4px rgba(32,40,70,0.08);
77         transition: transform var(--transition), box-shadow var(--transition), background var(--transition);
78         padding: 1.5rem;
79         cursor: pointer;
80         position: relative;
```

```

81    |     overflow: hidden;
82    |
83    .project-card:hover {
84        transform: translateY(-8px) scale(1.025);
85        box-shadow: 0 4px 18px rgba(42,157,143,0.15);
86        background: var(--hover);
87        color: #fff;
88    }
89    .project-card h3 {
90        margin-bottom: 0.6rem;
91    }
92    .project-card:hover h3,
93    .project-card:hover p {
94        color: #e9c46a;
95    }
96    @media (max-width: 700px) {
97        nav ul {
98            flex-direction: column;
99            gap: 0.8rem;
100       }
101       main {
102           width: 98%;
103           gap: 2rem;
104       }
105       section {
106           padding: 1rem;
107       }
108       #projects .project-list {
109           grid-template-columns: 1fr;
110       }
111   }
112 </style>
113 </head>
114 <body>
115     <header>
116         <h1>Gundeti Hasini</h1>
117         <p>passionate Learner & aspiring web developer</p>
118         <nav>
```

```

118     <nav>
119         <ul>
120             <li><a href="#home">Home</a></li>
121             <li><a href="#about">About</a></li>
122             <li><a href="#projects">Projects</a></li>
123             <li><a href="#contact">Contact</a></li>
124         </ul>
125     </nav></header>
126     <main>
127         <section id="home">
128             <h2>Welcome</h2>
129             <p>Hello! I'm hasini, a student in SR University.</p>
130         </section>
131         <section id="about">
132             <h2>About Me</h2>
133             <p>I am a Computer Science student with a love of web technologies. I enjoy transforming ideas into reality thro
134         </section>
135         <section id="projects">
136             <h2>Projects</h2>
137             <div class="project-list">
138                 <div class="project-card">
139                     <h3>Weather App</h3>
140                     <p>A responsive weather dashboard using OpenWeatherMap API and React.</p></div>
141                     <div class="project-card">
142                         <h3>Portfolio Website</h3>
143                         <p>The site you're viewing! Responsive, minimalist, and built for performance.</p></div>
144                     <div class="project-card">
145                         <h3>ToDo List App</h3>
146                         <p>A simple but effective productivity tool built with vanilla JavaScript.</p>
147                     </div></div>
148     </section>
149     <section id="contact">
150         <h2>Contact</h2>
151         <p>Get in touch: <br>
152             Email: <a href="mailto:hasini@student.com">hasini@student.com</a><br>
153             LinkedIn: <a href="https://linkedin.com/in/hstudent" target="_blank">student</a></p>
154     </section></main>
155 </body></html>
```

Output:

The screenshot shows a personal portfolio website with a blue header bar. The header contains the name "Gundeti Hasini" and a subtitle "passionate Learner & aspiring web developer". Below the header is a navigation bar with links for "Home", "About", "Projects", and "Contact". The main content area is divided into several sections: "Welcome" (a box containing a brief introduction), "About Me" (a box containing a bio about being a Computer Science student), "Projects" (a section with three cards: "Weather App", "Portfolio Website", and "ToDo List App"), and "Contact" (a section with contact information including email and LinkedIn). The design uses a clean, modern aesthetic with white space and rounded corners.

Observation:

The code builds a responsive personal portfolio webpage with four main sections: Home, About, Projects, and Contact. It uses flexbox and CSS grid for layout, ensuring adaptability across screen sizes. The navigation is sticky, the project cards include a hover effect (lift + shadow), and a simple contact form is provided, making the design clean, modern, and user-friendly.

Task #2:

AI-Generated Restaurant Landing Page

Scenario: A local restaurant needs simple landing page with navigation bar, menu highlights, and an image gallery. The developer wants to quickly generate it using AI assistance.

Prompt: a local restaurant needs simple landing page with navigation bar, menu highlights, and an image gallery.

Code generated:

```
ai_lab13 > ai_lab_14 > restr.html > html > head > style > body
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <title>Restaurant Landing Page</title>
6    <meta name="viewport" content="width=device-width, initial-scale=1.0">
7  <style>
8    :root {
9      --primary: ##e568a;
10     --accent: #f3f5f7;
11     --bg: #f2eef2f;
12     --text: #222;
13   }
14  body {
15    margin: 0;
16    background: var(--bg);
17    color: var(--text);
18    font-family: 'Segoe UI', Arial, sans-serif;
19  }
20  .navbar {
21    background: var(--primary);
22    display: flex;
23    justify-content: center;
24    align-items: center;
25    padding: 1rem 0;
26    position: sticky;
27    top: 0;
28    z-index: 100;
29  }
30  .navbar ul {
31    list-style: none;
32    display: flex;
33    gap: 2rem;
34    margin: 0;
35    padding: 0;
36  }
37  .navbar a {
38    color: #fff;
39    text-decoration: none;
40    font-size: 1.1rem;
41    font-weight: bold;
42    letter-spacing: 1px;
43    transition: color 0.2s;
44  }
45  .navbar a:hover {
46    color: var(--accent);
47  }
48  .container {
49    max-width: 1100px;
50    margin: 0 auto;
51    padding: 2rem 1rem;
52  }
53  .title {
54    text-align: center;
55    font-size: 2.5rem;
56    color: var(--primary);
57    margin: 2rem 0 1rem 0;
58  }
59  /* Menu Section */
60  #menu {
61    margin: 3rem 0;
62  }
63  .menu-cards {
64    display: grid;
65    grid-template-columns: repeat(auto-fit, minmax(250px, 1fr));
66    gap: 2rem;
67  }
68  .menu-card {
69    background: #fff;
70    border-radius: 10px;
71    box-shadow: 0 2px 12px rgba(178,58,72,0.08);
72    padding: 1.3rem;
73    text-align: center;
74    transition: box-shadow 0.2s, transform 0.2s;
75    border: 2px solid var(--accent);
76  }
77  .menu-card:hover {
78    box-shadow: 0 6px 20px rgba(178,58,72,0.16);
79    transform: scale(1.035);
```

```

118 |     color: #fff;
119 |     border: none;
120 |     padding: 0.7rem 1rem;
121 |     border-radius: 50%;
122 |     cursor: pointer;
123 |     font-size: 1.5rem;
124 |     opacity: 0.7;
125 |     transition: opacity 0.2s;
126 |     z-index: 2;
127 |
128 |     .slider-btn:hover { opacity: 1; }
129 |     .slider-btn.left { left: 10px; }
130 |     .slider-btn.right { right: 10px; }
131 |     @media (max-width: 700px) {
132 |         .menu-cards { grid-template-columns: 1fr; }
133 |         .slider-container { max-width: 99vw; }
134 |         .slider-images img { height: 100px; }
135 |     }
136 | 
```

```

137 | </style>
138 | </head>
139 | <body>
140 |     <nav class="navbar">
141 |         <ul>
142 |             <li><a href="#home">Home</a></li>
143 |             <li><a href="#menu">Menu</a></li>
144 |             <li><a href="#gallery">Gallery</a></li>
145 |             <li><a href="#contact">Contact</a></li>
146 |         </ul>
147 |     </nav>
148 |     <div class="container">
149 |         <section id="home">
150 |             <h1>Welcome to Dreamy Dine</h1>
151 |             <p style="text-align:center; max-width:600px; margin: 0 auto;">Experience delightful cuisine at our charming local restaurant! Our menu features a variety of dishes, from classic Italian specialties to fresh, seasonal options. Join us for a taste of the good life.</p>
152 |         </section>
153 |         <section id="menu">
154 |             <h2>Menu Highlights</h2>
155 |             <div class="menu-cards">
156 |
157 |                 <div class="menu-card">
158 |                     <h3>Grilled Italian Panini</h3>
159 |                     <p>Fresh mozzarella, pesto, tomato on toasted bread</p>
160 |                     <p><strong>$25</strong></p>
161 |                 </div>
162 |                 <div class="menu-card">
163 |                     <h3>Sizzling Veg Sizzler</h3>
164 |                     <p>Seasonal veggies served hot on a sizzler plate</p>
165 |                     <p><strong>$30</strong></p>
166 |                 </div>
167 |                 <div class="menu-card">
168 |                     <h3>Creamy Mushroom Soup</h3>
169 |                     <p>Smooth, rich, and perfect for all seasons!</p>
170 |                     <p><strong>$18</strong></p>
171 |                 </div>
172 |                 <div class="menu-card">
173 |                     <h3>Classic Chocolate Brownie</h3>
174 |                     <p>Warm, gooey brownie topped with vanilla ice cream</p>
175 |                     <p><strong>$15</strong></p>
176 |                 </div>
177 |             </div>
178 |         </section>
179 |         <section id="gallery">
180 |             <h2>Gallery</h2>
181 |             <div class="slider-container">
182 |                 <button class="slider-btn left">=&#8249;</button>
183 |                 <div class="slider-images">
184 |                     
185 |                     
186 |                     
187 |                     
188 |                 </div>
189 |                 <button class="slider-btn right">=&#8250;</button>
190 |             </div>
191 |         </section>
192 |         <section id="contact">
193 |             <h2>Contact Us</h2>
194 |             <p style="text-align:center;">
195 |                 Phone: <a href="tel:+911234567890">+91 12345 67890</a><br>
196 |                 Email: <a href="mailto:info@dreamydine.com">info@dreamydine.com</a><br>
197 |                 Address: 123 Main Street, City Centre, New York
198 |             </p>
199 |         </section>
200 |     </div>
201 | 
```

```

202 |     const images = document.querySelectorAll('.slider-images img');
203 |     const leftBtn = document.querySelector('.slider-btn.left');
204 |     const rightBtn = document.querySelector('.slider-btn.right');
205 |     let currentIndex = 0;
206 |     function showImage(idx) {
207 |         images.forEach((img, i) => {
208 |             img.classList.toggle('active', i === idx);
209 |         });
210 |     }
211 |     leftBtn.addEventListener('click', () => {
212 |         currentIndex = (currentIndex - 1 + images.length) % images.length;
213 |         showImage(currentIndex);
214 |     });
215 |     rightBtn.addEventListener('click', () => {
216 |         currentIndex = (currentIndex + 1) % images.length;
217 |         showImage(currentIndex);
218 |     });
219 |     let startX = null;
220 |     document.querySelector('.slider-container').addEventListener('touchstart', e => {
221 |         if (startX === null) return;
222 |         let endX = e.changedTouches[0].clientX;
223 |         if (endX - startX > 40) leftBtn.click();
224 |         else if (startX - endX > 40) rightBtn.click();
225 |         startX = null;
226 |     });
227 | 
```

Output:

Home Menu Gallery Contact

Welcome to Dreamy Dine

Experience delightful cuisine at our charming local restaurant, where every meal is a celebration of flavors and fresh ingredients.

Menu Highlights

Grilled Italian Panini Fresh mozzarella, pesto, tomato on toasted bread ₹250	Sizzling Veg Sizzler Seasonal veggies served hot on a sizzler plate ₹320	Creamy Mushroom Soup Smooth, rich, and perfect for all seasons! ₹180	Classic Chocolate Brownie Warm, gooey brownie topped with vanilla ice cream ₹150
---	---	---	---

Gallery

Contact Us

Phone: [+91 12345 67890](tel:+911234567890)
Email: info@dreamydine.com
Address: 123 Main Street, City Centre, newyork

Observation:

The code designs a simple and responsive restaurant landing page with a sticky navigation bar, a menu section styled using CSS cards, and an interactive JavaScript-based image slider for the gallery. The layout is clean, user-friendly, and effectively highlights the restaurant's offerings while ensuring easy navigation.

Task #3:

AI-Powered Event Registration Form

Scenario: SR University is hosting a tech fest. They need a web-based registration

form for students. The form must validate user input in real-time.

Prompt: SR University is hosting a tech fest. They need a web-based

registration form for students. The form must validate user input in real-time.generate an HTML form (fields: Name, Email, Phone, Department, Event Selection).Assist in adding CSS styling for an attractive form layout.

- Implement JavaScript validation (e.g., email format check, phone number length check) using Copilot's suggestions. Give js html css in single file.

Code generated:

```
ai_lab13 > ai_lab_14 > tech.html > html > head > style > :root
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <title>SR Tech Fest Registration</title>
6    <meta name="viewport" content="width=device-width, initial-scale=1.0">
7    <style>
8      :root {
9        --primary: #441bb3;
10       --accent: #340e82;
11       --error: #d7263d;
12       --bg: #fffafac;
13       --card-bg: #fff;
14       --text: #222;
15     }
16    body {
17      background: var(--bg);
18      font-family: 'Segoe UI', Arial, sans-serif;
19      min-height: 100vh;
20      display: flex;
21      justify-content: center;
22      align-items: center;
23    }
24    .form-container {
25      background: var(--card-bg);
26      padding: 2rem 2.5rem;
27      border-radius: 10px;
28      box-shadow: 0 4px 18px rgba(41,55,240,0.13);
29      width: 100%;
30      max-width: 410px;
31    }
32    .form-container h2 {
33      text-align: center;
34      color: var(--primary);
35      margin-bottom: 1rem;
36    }
37    .event-form label {
38      display: block;
39      margin-top: 1.1rem;
40      font-weight: 500;
41    }
42    .event-form input,
```

```
42    .event-form input,
43    .event-form select {
44      width: 100%;
45      margin-top: 0.4rem;
46      padding: 0.6rem 0.9rem;
47      border: 2px solid #e7eaf3;
48      border-radius: 8px;
49      font-size: 1rem;
50      transition: border-color 0.25s;
51      outline: none;
52    }
53    .event-form input:focus,
54    .event-form select:focus {
55      border-color: var(--primary);
56    }
57    .error-msg {
58      color: var(--error);
59      font-size: 0.95em;
60      margin-top: 0.25rem;
61      display: none;
62    }
63    .event-form button {
64      width: 100%;
65      padding: 0.9rem;
66      background: var(--primary);
67      color: #fff;
68      border: none;
69      border-radius: 8px;
70      font-size: 1.07rem;
71      margin-top: 1.4rem;
72      cursor: pointer;
73      font-weight: 600;
74      transition: background 0.18s;
75    }
76    .event-form button:disabled {
77      background: #abb4ef;
78      cursor: default;
79    }
80    .success-msg {
```

```

81     color: var(--accent);
82     font-weight: bold;
83     text-align: center;
84     margin-top: 1rem;
85     display: none;
86   }
87 </style></head>
88 <body>
89 <div class="form-container">
90   <h2>SRU Tech Fest Registration</h2>
91   <form class="event-form" id="regForm" autocomplete="off">
92     <label for="name">Name:</label>
93     <input type="text" id="name" required>
94     <div class="error-msg" id="nameError">Name is required.</div>
95     <label for="email">Email:</label>
96     <input type="email" id="email" required>
97     <div class="error-msg" id="emailError">Please enter a valid email.</div>
98     <label for="phone">Phone:</label>
99     <input type="tel" id="phone" maxLength="10" required>
100    <div class="error-msg" id="phoneError">Enter a valid 10-digit phone number.</div>
101    <label for="department">Department:</label>
102    <select id="department" required>
103      <option value="">Select</option>
104      <option>Computer Science</option>
105      <option>Electronics</option>
106      <option>Mechanical</option>
107      <option>Civil</option>
108      <option>Management</option></select>
109    <div class="error-msg" id="deptError">Please select your department.</div>
110    <label for="event">Event Selection:</label>
111    <select id="event" required>
112      <option value="">Select</option>
113      <option>Hackathon</option>
114      <option>Robotics</option>
115      <option>Web Design</option>
116      <option>Quiz</option>
117      <option>AI Workshop</option></select>
118    <div class="error-msg" id="eventError">Please select an event.</div>

```

```

119   <button type="submit" id="submitBtn" disabled>Register</button>
120   <div class="success-msg" id="successMsg">Registration successful! See you at the fest!</div>
121 </form> </div>
122 <script>
123   const name = document.getElementById('name');
124   const email = document.getElementById('email');
125   const phone = document.getElementById('phone');
126   const department = document.getElementById('department');
127   const eventField = document.getElementById('event');
128   const submitBtn = document.getElementById('submitBtn');
129   const nameError = document.getElementById('nameError');
130   const emailError = document.getElementById('emailError');
131   const phoneError = document.getElementById('phoneError');
132   const deptError = document.getElementById('deptError');
133   const eventError = document.getElementById('eventError');
134   const successMsg = document.getElementById('successMsg');
135   const regForm = document.getElementById('regForm');
136   function validateName() {
137     if (!name.value.trim()) {
138       nameError.style.display = 'block';
139       return false;
140     }
141     nameError.style.display = 'none';
142     return true;
143   }
144   function validateEmail() {
145     const regex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
146     if (!regex.test(email.value.trim())) {
147       emailError.style.display = 'block';
148       return false;
149     }
150     emailError.style.display = 'none';
151     return true;
152   }
153   function validatePhone() {
154     const val = phone.value.trim();
155     if (!/\d{10}$/.test(val)) {
156       phoneError.style.display = 'block';

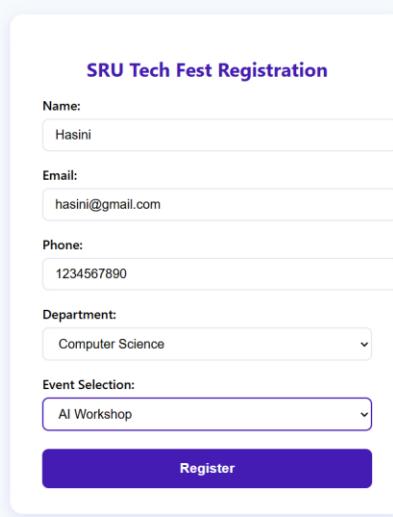
```

```

157     return true;
158   }
159   function validateDept() {
160     if (!department.value) {
161       deptError.style.display = 'block';
162       return false;
163     }
164     deptError.style.display = 'none';
165     return true;
166   }
167   function validateEvent() {
168     if (!eventField.value) {
169       eventError.style.display = 'block';
170       return false;
171     }
172     eventError.style.display = 'none';
173   }
174   function validateForm() {
175     return validateName() & validateEmail() & validatePhone() & validateDept() & validateEvent();
176   }
177   name.addEventListener('input', () => { validateName(); enableSubmit(); });
178   email.addEventListener('input', () => { validateEmail(); enableSubmit(); });
179   phone.addEventListener('input', () => { validatePhone(); enableSubmit(); });
180   department.addEventListener('change', () => { validateDept(); enableSubmit(); });
181   eventField.addEventListener('change', () => { validateEvent(); enableSubmit(); });
182   function enableSubmit() {
183     submitBtn.disabled = !validateForm();
184   }
185   regForm.addEventListener('submit', function(e) {
186     e.preventDefault();
187     if (!validateForm()) {
188       enableSubmit();
189       return;
190     }
191     successMsg.style.display = 'block';
192     regForm.reset();
193     submitBtn.disabled = true;
194     setTimeout(() => { successMsg.style.display = 'none'; }, 4000);
195   });
</script></body></html>

```

Output:



The image shows a screenshot of a web browser displaying a registration form titled "SRU Tech Fest Registration". The form contains fields for Name, Email, Phone, Department, and Event Selection. The "Name" field has "Hasini" entered. The "Email" field has "hasini@gmail.com" entered. The "Phone" field has "1234567890" entered. The "Department" dropdown is set to "Computer Science". The "Event Selection" dropdown is set to "AI Workshop". Below the form is a large purple button labeled "Register". Above the "Register" button, a green success message reads "Registration successful! See you at the fest!".

Registration successful! See you at the fest!

Observation:

The code provides a modern, responsive registration form with fields for student details and event selection. It uses CSS for an attractive layout and JavaScript for real-time validation (checking email format, phone length, and required fields). Error messages are displayed instantly, and a success message confirms registration, making the form both user-friendly and reliable.

Task#4:

AI-Assisted E-Commerce Product Page

Prompt: A startup wants a basic e-commerce product page to display products with prices and an “Add to Cart” button.

- generate a grid-based product catalog in HTML/CSS.
- include a cart counter at the top-right corner of the page. give html,css and js in the same file.

Code generated:

```
lab13 > ai_lab_14 > cart.html > html > head > style > h1
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4     <meta charset="UTF-8">
5     <title>Startup E-Commerce Product Page</title>
6     <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <style>
8     :root {
9       --primary: #d18072;
10      --accent: #74726c;
11      --bg: #f7f9fc;
12      --card-bg: #ffff;
13      --text: #222;
14      --shadow: 0 2px 10px rgba(0,0,0,0.08);
15    }
16   body {
17     margin: 0;
18     background: var(--bg);
19     font-family: 'Segoe UI', Arial, sans-serif;
20     color: var(--text);
21   }
22   .cart-counter {
23     position: fixed;
24     top: 25px;
25     right: 40px;
26     background: var(--primary);
27     color: #fff;
28     font-size: 1.06rem;
29     font-weight: bold;
30     border-radius: 50px;
31     padding: 0.55em 1em;
32     box-shadow: var(--shadow);
33     z-index: 50;
34     display: flex;
35     align-items: center;
36     gap: 0.5em;
37   }
38   .cart-icon {
39     font-size: 1.5em;
40     vertical-align: middle;
41   }
42   .container {
```

```
42 .container {
43   max-width: 1200px;
44   margin: 2.5rem auto;
45   padding: 0 1rem;
46 }
47 h1 {
48   text-align: center;
49   color: var(--primary);
50   margin-bottom: 2.5rem;
51 }
52 .product-grid {
53   display: grid;
54   grid-template-columns: repeat(auto-fit, minmax(240px, 1fr));
55   gap: 2rem;
56 }
57 .product-card {
58   background: var(--card-bg);
59   border-radius: 14px;
60   box-shadow: var(--shadow);
61   padding: 1.4rem 1rem 1rem 1rem;
62   text-align: center;
63   transition: box-shadow 0.23s, transform 0.23s;
64   position: relative;
65   display: flex;
66   flex-direction: column;
67   align-items: center;
68 }
69 .product-card:hover {
70   box-shadow: 0 4px 22px rgba(0,119,237,0.17);
71   transform: scale(1.028);
72 }
73 .product-card img {
74   width: 100%;
75   max-width: 118px;
76   height: 110px;
77   object-fit: contain;
78   margin-bottom: 1rem;
79   border-radius: 4px;
80   background: #f1f3f7;
81 }
82 .product-card h3 {
83   margin: 0.5rem 0 0.2rem 0;
84   color: var(--primary);
85 }
86 .product-card p {
```

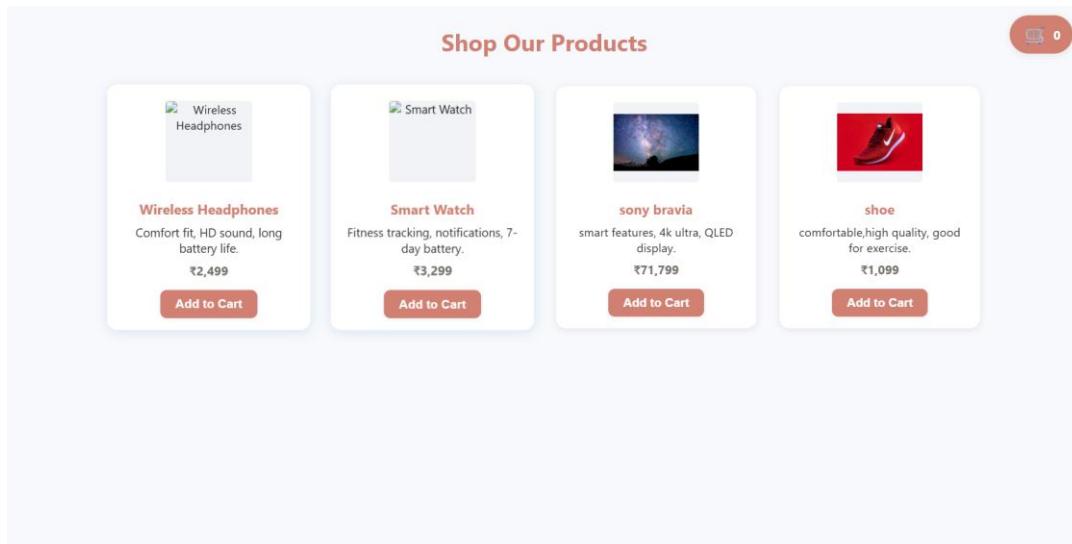
```
87   margin: 0.3rem 0 0.5rem 0;
88   font-size: 1.02rem;
89   color: #333;
90 }
91 .product-card .price {
92   font-size: 1.05rem;
93   font-weight: bold;
94   color: var(--accent);
95   margin-bottom: 1rem;
96 }
97 .add-cart-btn {
98   background: var(--primary);
99   color: #fff;
100  border: none;
101  border-radius: 9px;
102  padding: 0.62rem 1.3rem;
103  font-size: 1.04rem;
104  font-weight: bold;
105  box-shadow: 0 1px 7px rgba(0,119,237,0.09);
106  transition: background 0.16s;
107  cursor: pointer;
108 }
109 .add-cart-btn:active,
110 .add-cart-btn:hover {
111   background: #005db8;
112 }
113 @media (max-width: 800px) {
114   .container { padding: 0 0.5rem; }
115   .product-grid { gap: 1rem; }
116 }
117 @media (max-width: 500px) {
118   h1 { font-size: 1.6rem; }
119   .cart-counter { padding: 0.4em 0.7em; font-size: 1rem; top: 15px; right: 12px; }
120   .product-card img { height: 75px; max-width: 92px; }
121 }
122 </style></head>
123 <body>
124   <div class="cart-counter">
125     <span class="cart-icon">#128722;</span>
126     <span id="cartCount">0</span>
127   </div>
128   <div class="container">
129     <h1>Shop Our Products</h1>
130     <div class="product-grid">
```

```

118 <button class="add-cart-btn">Add to Cart</button></div>
119 <div class="product-card">
120 
122 <h3>Smart Watch</h3>
123 <p>Fitness tracking, notifications, 7-day battery.</p>
124 <div class="price">₹3,299</div>
125 <button class="add-cart-btn">Add to Cart</button></div>
126 <div class="product-card">
127 
129 <h3>sony bravia</h3>
130 <p>smart features, 4k ultra, QLED display.</p>
131 <div class="price">₹71,799</div>
132 <button class="add-cart-btn">Add to Cart</button></div>
133 <div class="product-card">
134 
136 <h3>shoe </h3>
137 <p>comfortable,high quality, good for exercise.</p>
138 <div class="price">₹1,099</div>
139 <button class="add-cart-btn">Add to Cart</button>
140 </div></div></div>
141 <script>
142 let cartCount = 0;
143 const cartCountSpan = document.getElementById('cartCount');
144 const addCartBtns = document.querySelectorAll('.add-cart-btn');
145 addCartBtns.forEach(btn => {
146   btn.addEventListener('click', () => {
147     cartCount++;
148     cartCountSpan.textContent = cartCount;
149     btn.textContent = 'Added!';
150     btn.disabled = true;
151     setTimeout(() => {
152       btn.textContent = 'Add to Cart';
153       btn.disabled = false;
154     }, 1200);
155   });
156 </script></body></html>

```

Output:



Observation:

The code creates a basic e-commerce product page using HTML, CSS, and JavaScript in a single file. It displays products in a responsive grid layout with images, names, prices, and an “Add to Cart” button. A cart counter is placed at the top-right corner inside the header and dynamically updates whenever the user clicks “Add to Cart.” The implementation is simple, lightweight, and serves as a starting point for building a full shopping cart system.

