

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8" />
5    <title>Awesome Web Project</title>
6    <link rel="stylesheet" href="css/style.css">          <!-- Problem 4-6,7,11 -->
7    <script src="js/script.js" defer></script>          <!-- Problem 8-12 -->
8  </head>
9  <body>
10   <!-- Problem 7 & 11: Navigation Bar -->
11   <nav class="navbar">
12     <a href="index.html">Home</a>
13     <a href="about.html">About</a>
14     <a href="contact.html">Contact</a>
15   </nav>
16
17   <main>
18     <!-- Problem 3: Markup tags -->
19     <section id="markup-demo">
20       <h2>Problem 3: Text Markup</h2>
21       <p>
22         <small>this is small text</small><br>
23         <mark>this is highlighted</mark><br>
24         <del>this is deleted</del>
25       </p>
26     </section>
27
28     <!-- Problem 4: Background Styling -->
29     <section id="background-demo">
30       <h2>Problem 4: Background Styles</h2>
31       <p>This section has a background color and image.</p>
32     </section>
33
34     <!-- Problem 5: CSS float -->
35     <section id="float-demo">
36       <h2>Problem 5: Floating Thumbnails</h2>
37       
38       <p>Text wrapping around the floated image. Lorem ipsum dolor sit amet.</p>
39     </section>
40
41     <!-- Problem 6: Pseudo-elements -->
42     <section id="pseudo-demo">
43       <h2>Problem 6: Pseudo-Elements</h2>
44       <div class="pseudo-box">Watch my first letter and after-content!</div>
45       <p>Select this text to see ::selection style.</p>
46     </section>
47
48     <!-- Problem 12: Dynamic Form & Table (also covers Problem 2 linking and Problem 7 page structure) -->
49     <section id="form-demo">
50       <h2>Problem 12: Dynamic Form & Table</h2>
51       <form id="demoForm">
52         <input type="text" id="txtName" placeholder="Enter your name"><br>
53         <label><input type="radio" name="opt" value="A"> Option A</label>
54         <label><input type="radio" name="opt" value="B"> Option B</label><br>
55         <select id="selColor">
56           <option value="Red">Red</option>
57           <option value="Green">Green</option>
58         </select><br>
59         <button id="btnAdd">Add Row</button>
60       </form>
61       <table id="dataTable">
62         <tr><th>Name</th><th>Choice</th><th>Color</th></tr>
63       </table>
64     </section>
65   </main>
66
67   <footer>
68     <p>Awesome Web Project © 2025</p>
69   </footer>
70 </body>
71 </html>
72

```

```
<!-- about.html -->  
<main>  
  <h1>About Us</h1>  
  <p>This is the About page.</p>  
</main>
```

```
1 <!-- contact.html -->  
2 <main>  
3   <h1>Contact</h1>  
4   <p>This is the Contact page.</p>  
5 </main>
```

```
1  /* Problem 4: Background */
2  #background-demo {
3      background-color: #eef;
4      background-image: url('../images/bg.jpg');
5      background-size: cover;
6      background-position: center;
7      padding: 20px;
8  }
9
10 /* Problem 5: Float Thumbnails */
11 .float-img {
12     float: left;
13     width: 120px;
14     margin: 10px;
15 }
16
17 /* Problem 6: Pseudo Elements */
18 .pseudo-box::after {
19     content: " ← after content";
20     color: crimson;
21 }
22 .pseudo-box::first-letter {
23     font-size: 2em;
24     color: teal;
25 }
26 ::selection {
27     background: gold;
28     color: black;
29 }
30
31 /* Problem 7 & 11: Navbar Styling */
32 .navbar {
33     background: #333;
34     padding: 10px;
35 }
36 .navbar a {
37     color: #fff;
38     margin: 0 10px;
39     text-decoration: none;
40 }
41 .navbar a:hover {
42     text-decoration: underline;
43 }
44
45 /* Basic page layout */
46 body { font-family: sans-serif; line-height: 1.4; }
47 main { padding: 20px; }
48 table { border-collapse: collapse; width: 100%; margin-top: 10px; }
49 th, td { border: 1px solid #ccc; padding: 5px; text-align: left; }
50
```

```
1 // === Problem 8: JS Data Types ===
2 console.log("String:", typeof "hello");
3 console.log("Number:", typeof 123);
4 console.log("Boolean:", typeof true);
5 let undef; console.log("Undefined:", typeof undef);
6
7 // === Problem 9: Arrays & Methods ===
8 let arr = [5,3,8];
9 arr.push(1,2);
10 arr.splice(2,1); // remove one at index 2
11 console.log("Before sort:", arr);
12 arr.sort((a,b) => a - b);
13 console.log("After sort:", arr);
14
15 // === Problem 10: Element Selection ===
16 window.addEventListener("DOMContentLoaded", () => {
17   console.log("By class .float-img:", document.getElementsByClassName("float-img"));
18   console.log("By ID #background-demo:", document.getElementById("background-demo"));
19   console.log("By tag <section>:", document.getElementsByTagName("section"));
20
21   // === Problem 11: Add placeholder content on nav click ===
22   document.querySelectorAll(".navbar a").forEach(link => {
23     link.addEventListener("click", e => {
24       // prevent full reload for demo
25       e.preventDefault();
26       const target = e.target.getAttribute("href").replace(".html","");
27       document.querySelector("main").innerHTML =
28         `<h1>Placeholder for ${target.toUpperCase()}</h1>`;
29     });
30   });
31
32   // === Problem 12: Dynamic Form & Table ===
33   document.getElementById("btnAdd").addEventListener("click", e => {
34     e.preventDefault();
35     const name = document.getElementById("txtName").value;
36     const opt = document.querySelector("input[name='opt']:checked");
37     const color = document.getElementById("selColor").value;
38     if (!name || !opt) { alert("Enter name & choose option"); return; }
39     const table = document.getElementById("dataTable");
40     const row = table.insertRow();
41     row.insertCell(0).innerText = name;
42     row.insertCell(1).innerText = opt.value;
43     row.insertCell(2).innerText = color;
44   });
45 });
46
```

Problem 3: Text Markup

this is small text
this is highlighted
this is deleted

Problem 4: Background Styles

This section has a background color and image.

Problem 5: Floating Thumbnails



Text wrapping around the floated image. Lorem ipsum dolor sit amet...

Problem 6: Pseudo Elements

Watch my first letter and after-content! -- after content

Select this text to see :selection style.

Problem 12: Dynamic Form & Table

Noel
Option A Option B
Green
Add Row

Name	Choice	Color
Joel	A	Red
Joel	B	Red
Noel	A	Green
Noel	B	Green

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Placeholder for ABOUT

Awesome Web Project © 2025

Placeholder for CONTACT

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