



## **WEB PROGRAMMING LAB EXERCISE-HTML**

Lab assignment questions focused on HTML elements like lists, images, sections, articles, asides, navigation (nav), links (a), headers, and footers:

### 1. Comprehensive Blog Layout

**Objective:** Create a complete blog page layout using semantic HTML elements.

**Requirements:**

- Use a `header` element to include the blog's title and a navigation menu with links (`a`) to "Home," "About," and "Contact" pages.
- Create an `article` for a blog post, including a title, author name, and a publish date.
- Include a section within the article that has at least two paragraphs and one unordered list (`ul`) of key takeaways.
- Use an `aside` element for related content or advertisements.
- Add a `footer` that contains copyright information and a link to the blog's social media pages.

### Sample Answer to Q1.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Blog</title>
</head>
<body>
  <!-- Blog Header -->
  <header>
    <h1>Welcome to My Blog</h1>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
  </header>

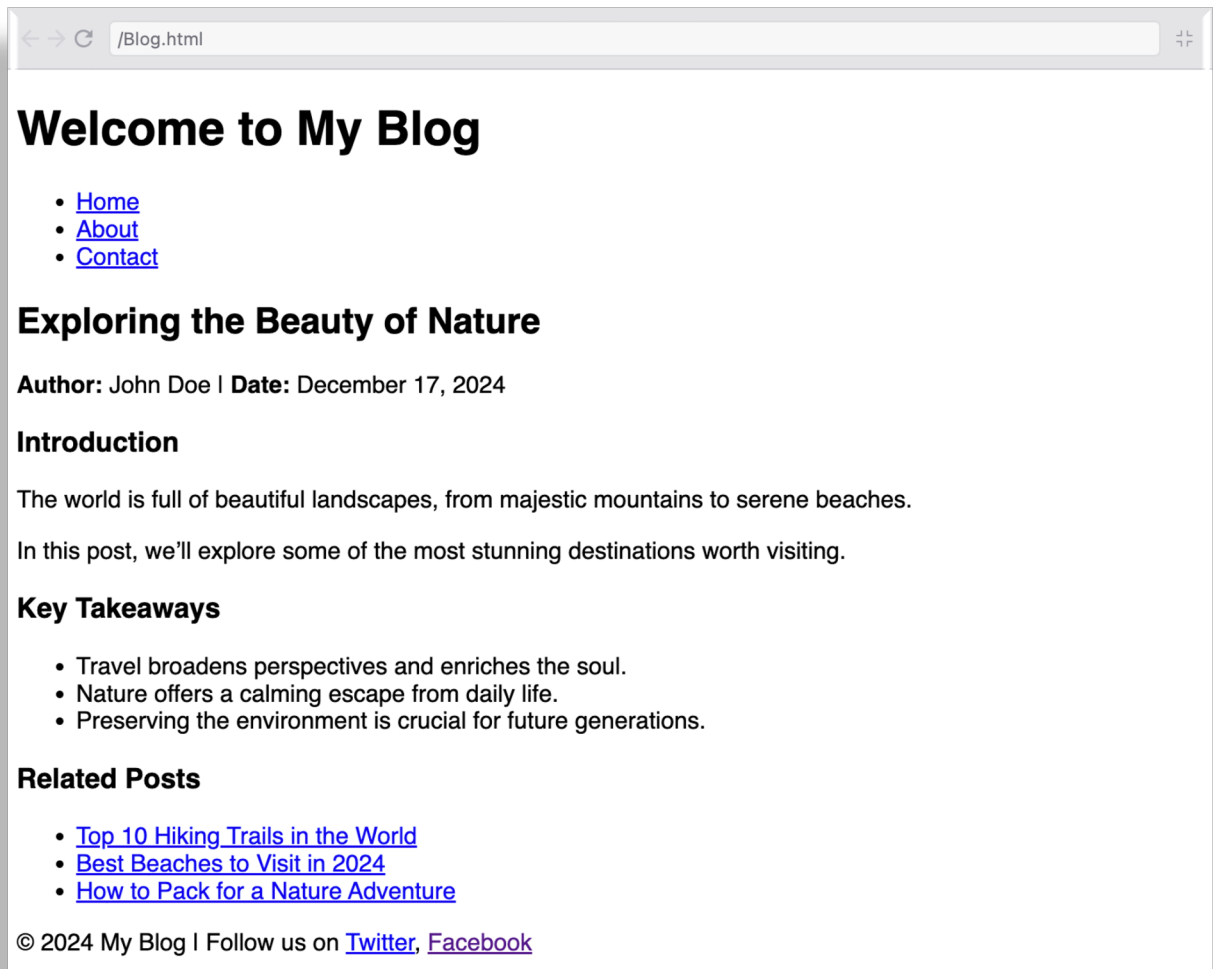
  <!-- Blog Main Content -->
  <main>
    <!-- Article Section -->
    <article>
      <h2>Exploring the Beauty of Nature</h2>
      <p><strong>Author:</strong> John Doe | <strong>Date:</strong> December 17, 2024</p>
      <section>
        <h3>Introduction</h3>
        <p>The world is full of beautiful landscapes, from majestic mountains to serene beaches.</p>
        <p>In this post, we'll explore some of the most stunning destinations worth visiting.</p>
      </section>
      <section>
        <h3>Key Takeaways</h3>
        <ul>
          <li>Travel broadens perspectives and enriches the soul.</li>
          <li>Nature offers a calming escape from daily life.</li>
          <li>Preserving the environment is crucial for future generations.</li>
        </ul>
      </section>
    </article>
  </main>
</body>
</html>
```



```
<!-- Related Content Aside -->
<aside>
  <h3>Related Posts</h3>
  <ul>
    <li><a href="#post1">Top 10 Hiking Trails in the World</a></li>
    <li><a href="#post2">Best Beaches to Visit in 2024</a></li>
    <li><a href="#post3">How to Pack for a Nature Adventure</a></li>
  </ul>
</aside>
</main>

<!-- Blog Footer -->
<footer>
  <p>&copy; 2024 My Blog | Follow us on
    <a href="https://twitter.com">Twitter</a>,
    <a href="https://facebook.com">Facebook</a>
  </p>
</footer>
</body>
</html>
```

## Output:





## 2. Online Product Catalog

**Objective:** Design a webpage displaying a product catalog.

**Requirements:**

- Use a `header` for the page title and a `nav` menu for product categories (e.g., Electronics, Fashion, Groceries).
  - Create a `section` for featured products with at least three `article` elements, each displaying:
    - An image of the product (`img` element).
    - A product name and description.
    - A price displayed as a list (`ul` or `ol`) of different pricing tiers (e.g., "Discount Price," "Original Price").
  - Include a `footer` with terms and conditions and a "Contact Us" link.
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## 3. Portfolio Website

**Objective:** Build a portfolio website using semantic HTML elements.

**Requirements:**

- Use a `header` to display your name and a `nav` bar for sections like "About Me," "Projects," and "Contact."
  - The "About Me" section should use a combination of `section` and `aside` elements to display:
    - A brief bio in the `section`.
    - A small profile picture (`img`) and hobbies in the `aside`.
  - The "Projects" section should include an ordered list (`ol`) of at least 3 project titles with links (`a`) to their descriptions.
  - Include a `footer` with links to your GitHub, LinkedIn, or email.
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## 4. Travel Blog Page

**Objective:** Design a single page for a travel blog.

**Requirements:**

- Use a `header` for the blog title and a `nav` bar with links to "Destinations," "Tips," and "Contact."
- Create a main `section` for a destination review:
  - Use an `article` element to describe the destination, with a heading, a paragraph, and an image.
  - Include an unordered list (`ul`) of travel tips specific to that destination.
- Add an `aside` to display related destinations with at least two images and a brief description for each.
- Include a `footer` with copyright information and contact links.



## 5. News Website

**Objective:** Create a simple news website page.

**Requirements:**

- Use a `header` to display the website logo and a `nav` bar for sections like "World," "Technology," "Sports," and "Entertainment."
  - Create a main `section` for the latest news, with at least three `article` elements:
    - Each `article` should have a headline, an image, and a brief paragraph.
    - Include an ordered list (`ol`) of key points under each article.
  - Use an `aside` to display "Top Stories" with links to other popular articles.
  - Add a `footer` with subscription options and links to social media pages.
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## 6. Recipe Page

**Objective:** Build a recipe page layout.

**Requirements:**

- Use a `header` for the recipe title and a `nav` menu with links to "Home," "Recipes," and "Tips."
  - Create a `section` for the recipe:
    - Include an `article` with a list of ingredients (unordered list) and steps (ordered list).
    - Add an image of the dish using the `img` element.
  - Use an `aside` to display nutritional information or fun facts about the dish.
  - Include a `footer` with links to other recipes or the chef's contact details.
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## 7. Event Page

**Objective:** Design a webpage for a community event.

**Requirements:**

- Use a `header` to display the event name and a `nav` bar with links to "Schedule," "Speakers," and "Register."
  - Create a `section` for the event details:
    - Use an `article` to describe the event theme, location, and date.
    - Include an unordered list (`ul`) of the main activities during the event.
  - Add an `aside` for sponsor information, including logos as images.
  - Include a `footer` with contact details and a registration link.
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## 8. Multi-Page Website

**Objective:** Develop a multi-page website using semantic HTML elements.

**Requirements for Each Page:**

1. **Home Page:**
    - Use a `header` with a site logo and `nav` links to other pages.
    - Include a `section` for an introduction and an `aside` for highlights or quick links.
  2. **About Page:**
    - Use a `section` for a biography or history.
    - Include an unordered list (`ul`) of achievements or milestones.
  3. **Contact Page:**
    - Use a `section` for a contact form.
    - Include an `aside` for location details and a map image.
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