**Day 4: Advanced CSS Styling**

Knowledge:

* **CSS Transitions:**
  + Understand the concept of CSS transitions for smooth state changes.
  + Learn about properties like **transition-property**, **transition-duration**, and **transition-timing-function**.
* **CSS Animations:**
  + Explore CSS animations for creating dynamic effects.
  + Understand properties like **@keyframes**, **animation-name**, **animation-duration**, and **animation-timing-function**.

Task:

1. **Transitions:**
   * Implement CSS transitions to create smooth effects on hover or other state changes.
   * Apply transitions to elements such as links, buttons, or background colors.
2. **Animations:**
   * Explore CSS animations to add dynamic effects to your webpage.
   * Create a simple animation, such as a fade-in effect or a bouncing element.
3. **Advanced Styling:**
   * Experiment with advanced styling techniques like gradients, shadows, and rounded corners.
   * Apply these styles to different sections of your webpage.

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>HTML Semantics and Accessibility</title>**

**<style>**

**body {**

**font-family: 'Arial', sans-serif;**

**margin: 0;**

**padding: 0;**

**background-color: #f8f8f8;**

**color: #333;**

**}**

**header {**

**background-color: #333;**

**color: #fff;**

**text-align: center;**

**padding: 20px;**

**}**

**nav {**

**background-color: #4CAF50;**

**padding: 10px;**

**text-align: center;**

**}**

**nav ul {**

**list-style: none;**

**padding: 0;**

**margin: 0;**

**}**

**nav li {**

**display: inline;**

**margin: 0 10px;**

**}**

**nav a {**

**text-decoration: none;**

**color: #fff;**

**font-weight: bold;**

**}**

**section {**

**margin: 20px;**

**padding: 20px;**

**background-color: #fff;**

**border-radius: 8px;**

**box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);**

**}**

**article {**

**margin-bottom: 20px;**

**}**

**h2 {**

**color: #4CAF50;**

**}**

**footer {**

**background-color: #333;**

**color: #fff;**

**text-align: center;**

**padding: 10px;**

**position: fixed;**

**bottom: 0;**

**width: 100%;**

**}**

**</style>**

**</head>**

**<body>**

**<!-- Header Section -->**

**<header>**

**<h1>Web Development Blog</h1>**

**<p>Welcome to our blog where we explore the world of web development!</p>**

**</header>**

**<!-- Navigation Section -->**

**<nav>**

**<ul>**

**<li><a href="#home">Home</a></li>**

**<li><a href="#articles">Articles</a></li>**

**<li><a href="#about">About Us</a></li>**

**<li><a href="#contact">Contact</a></li>**

**</ul>**

**</nav>**

**<!-- Main Content Section -->**

**<section>**

**<h2 id="home">Home</h2>**

**<p>This is the main landing page of our blog. Explore the latest web development trends and topics.</p>**

**</section>**

**<!-- Articles Section -->**

**<section>**

**<h2 id="articles">Latest Articles</h2>**

**<!-- Article 1 -->**

**<article>**

**<h3>Building Responsive Websites</h3>**

**<p>Learn the essentials of creating responsive websites that adapt to different screen sizes.</p>**

**</article>**

**<!-- Article 2 -->**

**<article>**

**<h3>Introduction to Accessibility</h3>**

**<p>Understand the importance of making your websites accessible to everyone.</p>**

**</article>**

**</section>**

**<!-- About Us Section -->**

**<section>**

**<h2 id="about">About Us</h2>**

**<p>Discover more about our team and the mission behind our web development blog.</p>**

**</section>**

**<!-- Contact Section -->**

**<section>**

**<h2 id="contact">Contact Us</h2>**

**<p>Have questions or suggestions? Reach out to us via email or social media.</p>**

**</section>**

**<!-- Footer Section -->**

**<footer>**

**<p>&copy; 2023 Web Development Blog. All rights reserved.</p>**

**</footer>**

**</body>**

**</html>**

Additional Challenge (Optional):

* Implement responsive design by using media queries to adapt your styles based on different screen sizes.
* Explore and apply flexbox or grid layout for a more sophisticated layout.