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Web Programming

1.Div and span

Screenshot code

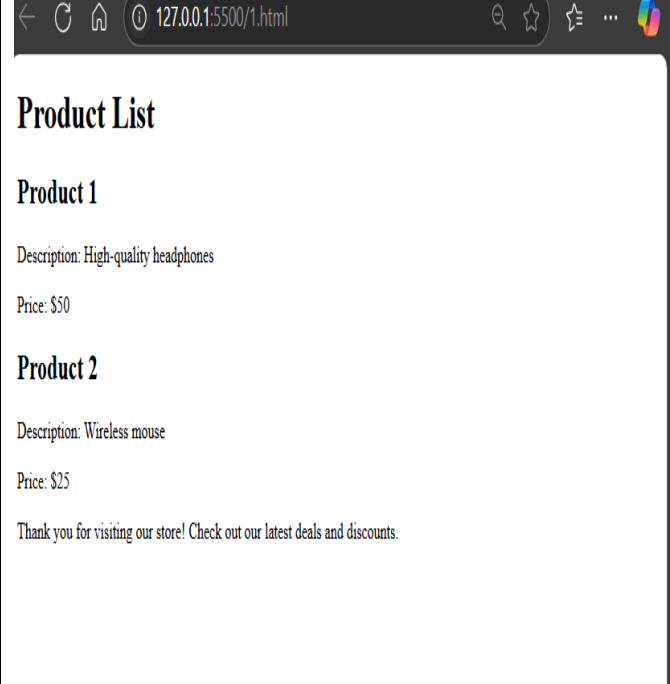
```
<!DOCTYPE html>
<html>
<head>
  <title>div and span Example</title>
</head>
<body>
  <h1>Product List</h1>

  <div>
    <h2>Product 1</h2>
    <p>Description: <span>High-quality headphones</span></p>
    <p>Price: <span>$50</span></p>
  </div>

  <div>
    <h2>Product 2</h2>
    <p>Description: <span>Wireless mouse</span></p>
    <p>Price: <span>$25</span></p>
  </div>

  <p>
    Thank you for visiting our store! Check out our <span>latest deals</span> and <span>discounts</span>.
  </p>
</body>
</html>
```

Screenshot output



Div - This is a block-level element inside a box. It starts on a new line.

Span - This is a paragraph with inside a box. The span stays inline.

Inference - Both are generic HTML elements used for grouping content is a block-level element. It is typically used for large structural divisions, while is used for smaller inline content.

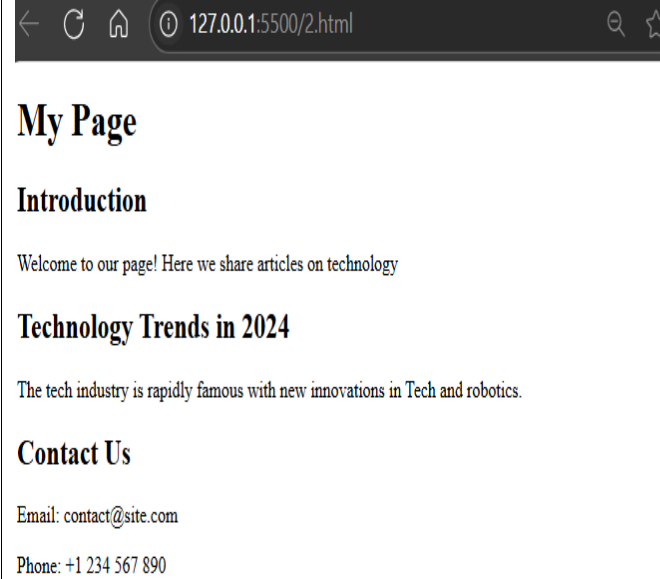
2. Div and section

Screenshot code

```
<!DOCTYPE html>
<html>
<head>
  <title>div and section</title>
</head>
<body>
  <h1>My Page</h1>
  <section>
    <h2>Introduction</h2>
    <p>Welcome to our page! Here we share articles on technology</p>
  </section>

  <section>
    <article>
      <h2>Technology Trends in 2024</h2>
      <p>The tech industry is rapidly famous with new innovations in Tech and robotics.</p>
    </article>
  </div>
  <div>
    <h2>Contact Us</h2>
    <p>Email: contact@site.com</p>
    <p>Phone: +1 234 567 890</p>
  </div>
</body>
</html>
```

Screenshot output



Div- A block-level container used to group content

Section- A thematic grouping of content, typically with a heading.

Inference-Div is for generic grouping, while section defines a distinct section of content, often with a specific purpose

3.Paragraph and article

Screenshot code	Screenshot output
<pre><!DOCTYPE html> <html> <head> <title>Paragraph and Article</title> </head> <body> <h1>My Website</h1> <article> <h2>Today's News: Tech Advances in 2024</h2> <p>Technology has taken in artificial intelligence and quantum computing.</p> <p>Experts predict that these innovations will revolutionize industries across the globe.</p> </article> <article> <h2>Travel Trends: Top Destinations</h2> <p>Travel enthusiasts are flocking to new, off-the-beaten-path destinations this year.</p> <p>Places like Iceland, Bhutan, and Patagonia are gaining popularity for their experience.</p> </article> <p>This website provides the latest updates on news, technology, and travel trends from around the world.</p> </body> </html></pre>	<p>My Website</p> <p>Today's News: Tech Advances in 2024</p> <p>Technology has taken in artificial intelligence and quantum computing.</p> <p>Experts predict that these innovations will revolutionize industries across the globe.</p> <p>Travel Trends: Top Destinations</p> <p>Travel enthusiasts are flocking to new, off-the-beaten-path destinations this year.</p> <p>Places like Iceland, Bhutan, and Patagonia are gaining popularity for their experience.</p> <p>This website provides the latest updates on news, technology, and travel trends from around the world.</p>

Paragraph -A block-level element used to define a paragraph of text.

Article - Represents a self-contained piece of content that could be independently distributed or reused.

Inference – It is used for regular text, while <article> is for distinct content pieces that can stand alone, such as a blog post or news item.

4.Navigation and anchor

Screenshot code

```
<!DOCTYPE html>
<html>
<head>
  <title>Navigation and Anchor </title>
</head>
<body>
  <h1>My Website</h1>

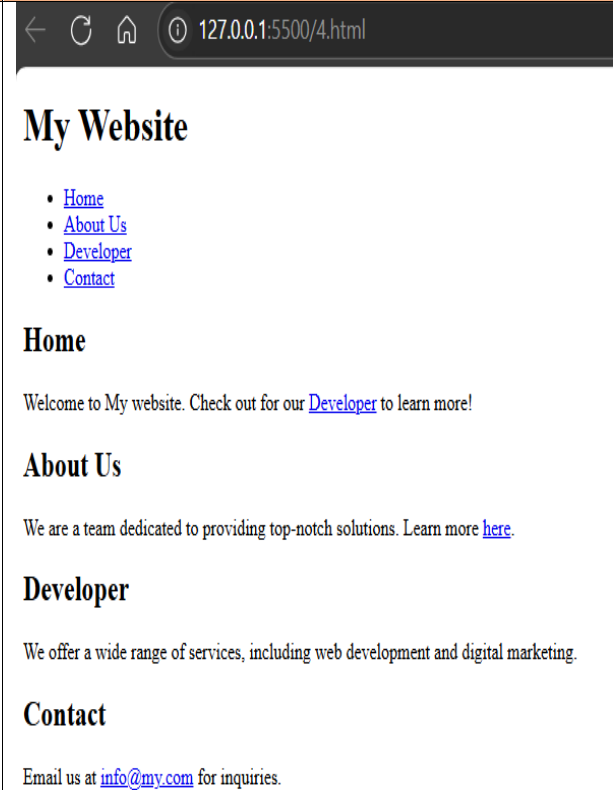
  <nav>
    <ul>
      <li><a href="#home">Home</a></li>
      <li><a href="#about">About Us</a></li>
      <li><a href="#Developer">Developer</a></li>
      <li><a href="#contact">Contact</a></li>
    </ul>
  </nav>
  <section id="home">
    <h2>Home</h2>
    <p>Welcome to My website. Check out for our <a href="#Developer">Developer</a> to learn more!</p>
  </section>

  <section id="about">
    <h2>About Us</h2>
    <p>We are a team dedicated to providing top-notch solutions. Learn more <a href="https://my.com" target="_blank">here</a>.</p>
  </section>

  <section id="Developer">
    <h2>Developer</h2>
    <p>We offer a wide range of services, including web development and digital marketing.</p>
  </section>

  <section id="contact">
    <h2>Contact</h2>
    <p>Email us at <a href="mailto:info@my.com">info@my.com</a> for inquiries.</p>
  </section>
</body>
</html>
```

Screenshot output

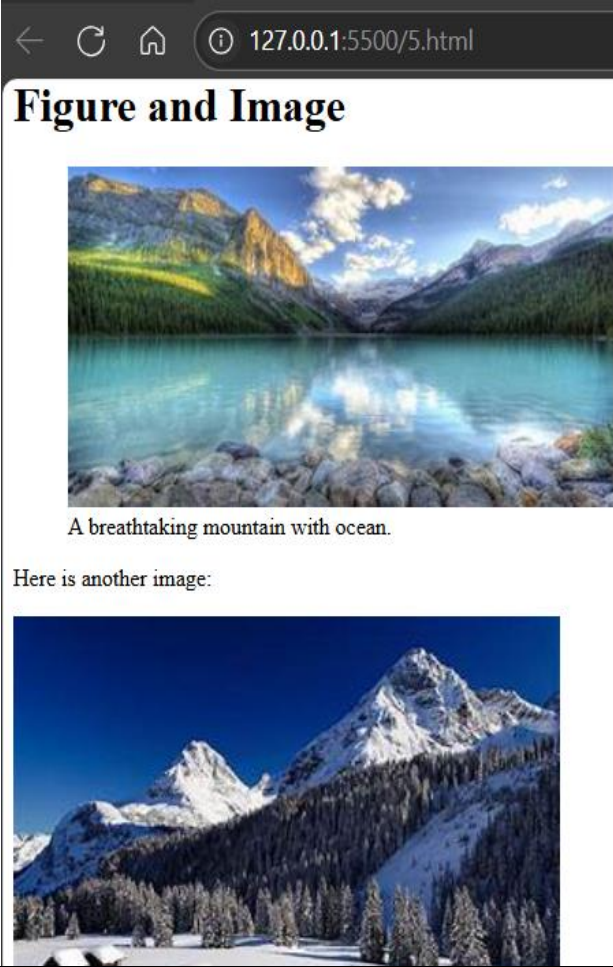


Navigation - A section of a webpage that contains links to navigate through the website.

Anchor - A hyperlink used to link to another webpage or a specific part of the same page.

Inference - Used to define a navigation area, and a within it or elsewhere is used to create clickable links for navigation.

5. Figure and image

Screenshot code	Screenshot output
<pre><!DOCTYPE html> <html> <head> <title>Figure and Image </title> </head> <body> <h1>Figure and Image </h1> <figure> <figcaption>A breathtaking mountain with ocean.</figcaption> </figure> <p>Here is another image:</p> </body> </html></pre>	
<p>Figure - Represents content that is self-contained, such as an image, chart, or diagram, with an optional caption.</p> <p>Image - Used to embed an image in a webpage.</p> <p>Inference- Used to group media content like images along with a Figure caption while image specifically for displaying images.</p>	

6.Label and legends

Screenshot code

```
<!DOCTYPE html>
<html>
<head>
  <title>Label and Legends</title>
</head>
<body>
  <h1>Label and Legends </h1>
  <form>
    <label for="name">Name:</label>
    <input type="text" id="name" name="name"><br><br>

    <label for="email">Email:</label>
    <input type="email" id="email" name="email"><br><br>
    <fieldset>
      <legend>Personal Information</legend>
      <label for="age">Age:</label>
      <input type="number" id="age" name="age"><br><br>

      <label for="gender">Gender:</label>
      <select id="gender" name="gender">
        <option value="male">Male</option>
        <option value="female">Female</option>
        <option value="other">Other</option>
      </select>
    </fieldset><br>

    <button type="submit">Submit</button>
  </form>
</body>
</html>
```

Screenshot output

← ↻ 🏠 ⓘ 127.0.0.1:5500/6.html

Label and Legends

Name:

Email:

Personal Information

Age:

Gender:

Label - Defines a label for an input element, making forms more accessible and user-friendly.

Legend - Provides a caption or title for a field set element, grouping related form controls.

Inference-label is used to associate text with form elements for better accessibility, while legend is used to describe a group of form

7.Strong vs bold vs emphasis tag

Screenshot code	Screenshot output
<pre><!DOCTYPE html> <html> <head> <title>Strong vs Bold vs Emphasis</title> </head> <body> <h1>Strong vs Bold vs Emphasis</h1> <p> This is my website welcome to my website. </p> <p> This is a bolded text used for styling purposes. </p> <p> Some sentence creates emphasized text, which adds importance or stress to the word. </p> <p> Combined Example: Strong and Bold may look the same visually, but emphasis is different. </p> </body> </html></pre>	
<p>Strong - Represents text with strong emphasis, typically rendered in bold by default, indicating importance.</p> <p>Emphasis - Represents text with emphasis, typically rendered in italics by default, indicating stress or importance in context.</p> <p>Bold - Represents text that is bold, without implying any special importance or emphasis.</p> <p>Inference -Implies importance, indicates emphasis, and simply styles text in bold without any semantic meaning</p>	