**HTML Questions**

Q1. **What is HTML?**  
HTML stands for HyperText Markup Language. It is the standard markup language used to create web pages.

HTML describes the structure of a web page using elements, which are represented by tags. These tags can define headings, paragraphs, links, images, and other content.

**Q1.1** **What is the difference between HTML and HTML5?**

**HTML5** is the latest version of HTML with new features such as native support for audio, video, local storage, geolocation, and more semantic tags like <article>, <section>, and <nav>.

HTML5 also removed older elements such as <font> and <center> and introduced APIs for more interactive and dynamic web experiences.

Q2. **What are HTML elements?**  
HTML elements are the building blocks of HTML pages. An element typically consists of a start tag, content, and an end tag. For example, in **<p>This is a paragraph.</p>**, **<p>** is the start tag, **This is a paragraph.** is the content, and **</p>** is the end tag.

Q3. **What is the difference between HTML tags and attributes?**  
HTML tags are the basic building blocks of HTML, used to create elements .

It consist of angle braces (<>) with open and end.

(e.g., **<div>**, **<p>**, **<a>**).

Attributes provide additional information about an element and are included in the opening tag.

For example, in **<a href="https://www.example.com">Visit Example</a>**, **href** is an attribute of the **<a>** tag that specifies the URL the link points to.

**Q4. What is the purpose of the <head> section in an HTML document?**  
The **<head>** section of an HTML document contains meta-information about the document, such as the title, character set, styles, scripts, Viewport Settings,favicon and other metadata.

This information is not displayed directly on the web page but is essential for the browser and search engines.

**Q5.What are semantic HTML elements?**  
Semantic HTML elements are those that clearly describe their meaning in a human- and machine-readable way.

Examples include **<header>**, **<footer>**, **<article>**, **<section>**, and **<nav>**.

Using semantic elements improves accessibility and SEO by providing better context to search engines and assistive technologies.

**Q6.What are data attributes in HTML?**Data attributes are custom attributes that can be added to HTML elements to store extra information. They are prefixed with data- and can be accessed via JavaScript. For example, <div data-user-id="12345"> has a data attribute data-user-id with a value of 12345

**Q7.What is the purpose of the <meta> tag?**  
The **<meta>** tag provides metadata about the HTML document, such as character set, author, description, keywords, and viewport settings. This information is not displayed on the page but is used by browsers and search engines to understand the content and context of the page.