

Assignment-9

Answer-1 : HTML5 - HTML 5 is the fifth and current version of HTML. HTML5 is the latest version of HTML and includes new features that allow web developers to create more interactive and engaging content for the web. It has improved the markup available for documents and has introduced application programming interfaces (API) and Document Object Model (DOM). It's supported by all browsers.

- **<article>**: The <article> tag is used to represent an article. More specifically, the content within the <article> tag is independent from the other content of the site (even though it can be related).
- **<aside>**: The <aside> tag is used to describe the main object of the web page in a shorter way like a highlighter. It basically identifies the content that is related to the primary content of the web page but does not constitute the main intent of the primary page. The <aside> tag contains mainly author information, links, related content and so on.

- **<header>**: It contains the section heading as well as other content, such as navigation links, table of contents, etc.
- **<footer>**: The `<footer>` tag in HTML is used to define a footer of an HTML document. This section contains the footer information (author information, copyright information, carriers etc.). The footer tag is used within the body tag. The `<footer>` tag is new in the HTML 5. The footer elements require a start tag as well as an end tag.
- **<main>**: Delineates the main content of the body of a document or web app.
- **<nav>**: The `<nav>` tag is used to declare the navigational section in HTML documents. Websites typically have sections dedicated to navigational links, which enables users to navigate the site. These links can be placed inside a nav tag.
- **<section>**: It demarcates a thematic grouping of content.

- **<details>:** The `<details>` tag is used for the content/information which is initially hidden but could be displayed if the user wishes to see it. This tag is used to create an interactive widget which users can open or close. The content of the details tag is visible when opening the set attributes.
- **<summary>:** The `<summary>` tag in HTML is used to define a summary for the `<details>` element. The `<summary>` element is used along with the `<details>` element and provides a summary visible to the user. When the summary is clicked by the user, the content placed inside the `<details>` element becomes visible which was previously hidden. The `<summary>` tag was added in HTML 5. The `<summary>` tag requires both a starting and ending tag.

- **<canvas>**: The <canvas> tag in HTML is used to draw graphics on web pages using JavaScript. It can be used to draw paths, boxes, texts, gradients and adding images. By default, it does not contain borders and text.
- **<audio>**: It defines the music or audio content.
- **<source>**: It defines the sources for <video> and <audio>.
- **<video>**: It defines the video content.

Answer-2 : Which tags are introduced in HTML5 that are called semantic tags. A semantic element clearly describes its meaning to both the browser and the developer. **Example of semantic tags-<article>**

- `<aside>`
- `<details>`
- `<footer>`
- `<header>`
- `<main>`
- `<nav>`
- `<section>`
- `<summary>`

Answer-3 : List some uses of semantic tags.

`<header>` - This semantic tag is used at the top of the page. It contains mostly the heading of the page.

`<main>` - It contains the main part of the page.

`<footer>` - It is used at the bottom of the page. Mostly, it contains copyright, next button ,some information etc.

<section> - The <section> tag defines a section or part in a page.

<video> - It contains video on the page.