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**Assignment-3**

1. **What are the new tags added in HTML5?**

* HTML5 introduced several new tags to enhance the semantics and structure of web documents

1. <header> : Used to define the header of a document or a section.
2. <footer> : Defines the footer of a document or a section.
3. <nav> : Specifies a set of navigation links.
4. <details> : Defines additional details or information that the user can view or hide.
5. <summary> : Defines a visible heading for the **<details>** element.
6. **How to embed audio and video in a webpage?**

* To embed audio and video in a webpage, you can use the **<audio>** and **<video>** elementsin HTML5.
* **Embedding Audio:**

<audio controls>

    <source src="audio-file.mp3" type="audio/mpeg">

</audio>

* The <audio> element is used to embed audio content.
* The **controls** attribute adds playback controls to the audio player (play, pause, volume, etc.).
* The **<source>** element specifies the audio file **(audio-file.mp3)** and its type **(audio/mpeg).** You can include multiple **<source>** elements to provide different formats for compatibility across browsers.
* **Embedding Video :**

<video controls width="640" height="360">

    <source src="video-file.mp4" type="video/mp4">

</video>

* The **<video>** element is used to embed video content.
* The **controls** attribute adds playback controls to the video player.
* The **width** and **height** attributes specify the dimensions of the video player.
* The **<source>** element specifies the video file **(video-file.mp4)** and its type **(video/mp4).**

1. **Semantic element in HTML5?**

* <header> : Used to define the header of a document or a section.
* <footer> : Defines the footer of a document or a section.
* <nav> : Specifies a set of navigation links.
* <details> : Defines additional details or information that the user can view or hide.
* <summary> : Defines a visible heading for the **<details>** element.
* **<figcaption>** : Represents a caption or legend for a figure element.
* **<main>** : Specifies the main content of a document, excluding header, footer, and asides content.
* **<time>** : Represents a specific period in time or a duration, typically used to indite dates or times.

1. **Canvas and SVG tags**

* **SVG**:
* SVG stands for Scalable Vector Graphics
* SVG is used to define vector-based graphics for the Web
* SVG defines graphics in XML format
* Each element and attribute in SVG files can be animated

svg width="100" height="100">

    <circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow" />

</svg>

* **Canvas**:
* The HTML **<canvas>** element is used to draw graphics, on the fly, via JavaScript.
* The **<canvas>** element is only a container for graphics. You must use JavaScript to actually draw the graphics.
* Canvas has several methods for drawing paths, boxes, circles, text. And adding images.
* Canvas is supported in all major browsers.

<canvas id="myCanvas" width="200" height="100" style="border:1px solid #000000;">

</canvas>