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MODULE 5-HTML 5

1. What are the new tags added in HTML5?

HTML5 include tags for audio, video in our web page ,we can also create drawing in our web page using canvas without graphics software . Html 5 has added the basic coded structure i.e doctype declaration and also have some semantic tags and other different form input types.

- **Semantic Elements**
  Semantic Elements include tags such as
  <header> , <nav> , <section> , <aside> , <article> , <footer> , <figure>
- **Field Set**
  Field set is used for grouping the related elements in form and it uses the <legend> tag in conjuction to <fieldset> and the legend tag is used for title.
- **Audio And Video**
  Audio and video tag in HTML5 is used to embed video and sound content.
- **Iframe**
  Iframe tag specifies inline frame and it is used to embed another document within the current documents
- **Form Input Types**
  Some other input types in forms are added such as
  Date , months , week , time , range , url ,email , color , tel , search, datalist , datetime , datetime-local .

2. How to embed audio and video in a webpage?

Video

The <video> tag is used to embed the video content in document , such as movie clips or other video streams.
 The video tag uses SOURCE tag with different video sources.
The HTML5 support three video format i.e mp4 , webM , OGG
Example:

```
<video width="320px" height="240px" controls>
<source src="marwadiUniversity.mp4" type="video/mp4">
</video>
```

Audio

<Audio> tag is used to embed the sound content in a document , such as music or other audio stream. IT also contain SOURCE tag with different sources.
IT support audio format such as mp3, WAV , OGG
Eaxmple:

```
<audio controls>
<sourcesrc="marwadiUniversity.mp3"
type="audio/mpeg">
</audio>
```

3. Semantic element in HTML5?

Semantic elements are the elements that has clear define meaning to browser and developer. The contents in semantic elements have some meaningful definition rather than there are some non-semantic elements that doesn't implies any meaning but they are used as the container such as div tag or span tag.

Semantic elements includes

- Header – header is define at the top of the document , it define the main heading contents such as tagline , can also have navigation links , search text box etc.
- Article - Article represent the independent content , the content within the article tag is independent from the other content of the site.
- Aside –aside tag is basically used for writing the content apart from the main content , generally it is used in side bars. Example it can be used for advertising purpose or anything.
- Section- Section is used to create standalone section within a webpage containing logically connected content. It can be used for creating a separate logical blocks.
- Footer- Footer is used at the bottom of the page and it contain mainly contact information , copyright information etc.

4. Canvas and SVG tags?

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.

SVG is a W3 consortium and it 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 is a W3C recommendation. SVG integrates with other standards, such as CSS, DOM, XSL and JavaScript