SES'S L.S.RAHEJA COLLEGE OF ARTS AND COMMERCE		
Course: Web Programming	Unit: II	Prepared by: Ms. Prajakta Joshi

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HTML5 navigation:

<nav> : The <nav> tag defines a set of navigation links.

Notice that NOT all links of a document should be inside a <nav> element. The <nav> element is intended only for major block of navigation links.

Example:

```
<nav>
  <a href="/html/">HTML</a> |
  <a href="/css/">CSS</a> |
  <a href="/js/">JavaScript</a> |
  <a href="/jquery/">jQuery</a>
</nav>
```

CSS Navigation Bar

A navigation bar needs standard HTML as a base.

In our examples we will build the navigation bar from a standard HTML list.

A navigation bar is basically a list of links, so using the <ul> and <li> elements makes perfect sense:

Example

```
<ul>
  <li><a href="default.asp">Home</a></li>
  <li><a href="news.asp">News</a></li>
  <li><a href="contact.asp">Contact</a></li>
  <li><a href="about.asp">About</a></li>
</ul>
```

Image Map:

The <map> tag defines an image-map. An image-map is an image with clickable areas.

```
<img src="workplace.jpg" alt="Workplace" usemap="#workmap">

<map name="workmap">
  <area shape="rect" coords="34,44,270,350" alt="Computer" href="computer.htm">
  <area shape="rect" coords="290,172,333,250" alt="Phone" href="phone.htm">
```

```
<area shape="circle" coords="337,300,44" alt="Coffee" href="coffee.htm">
</map>
```
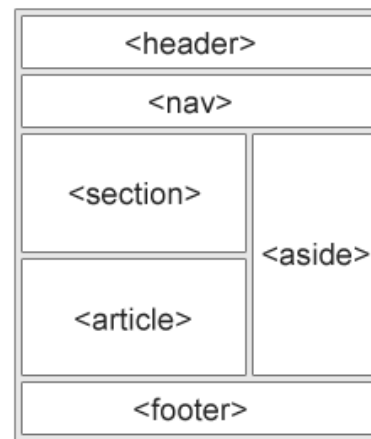
HTML Semantic Elements

A semantic element clearly describes its meaning to both the browser and the developer.

Examples of **non-semantic** elements: <div> and <span> - Tells nothing about its content.

Examples of **semantic** elements: <form>, <table>, and <article> - Clearly defines its content.

- <article>
- <aside>
- <details>
- <figcaption>
- <figure>
- <footer>
- <header>
- <main>
- <mark>
- <nav>
- <section>
- <summary>
- <time>

```
┌─────────────────────────────┐
│        <header>             │
├─────────────────────────────┤
│         <nav>              │
├──────────────────┬──────────┤
│                  │          │
│    <section>     │          │
│                  │ <aside>  │
├──────────────────┤          │
│    <article>     │          │
│                  │          │
├──────────────────┴──────────┤
│        <footer>            │
└─────────────────────────────┘
```

Defining an HTML Table

An HTML table is defined with the <table> tag.

Each table row is defined with the <tr> tag. A table header is defined with the <th> tag. By default, table headings are bold and centered. A table data/cell is defined with the <td> tag.

- Use the HTML <table> element to define a table

- Use the HTML <tr> element to define a table row

- Use the HTML <td> element to define a table data

- Use the HTML <th> element to define a table heading

- Use the HTML <caption> element to define a table caption

- Use the CSS border property to define a border

- Use the CSS border-collapse property to collapse cell borders

- Use the CSS padding property to add padding to cells

- Use the CSS text-align property to align cell text

- Use the CSS border-spacing property to set the spacing between cells

- Use the colspan attribute to make a cell span many columns

- Use the rowspan attribute to make a cell span many rows

- Use the id attribute to uniquely define one table

Form:

<form>…<form>	defines a form that is used to collect user input
<input type="text">	**Defines a single-line text input field**
<input type="radio">	**Defines a radio button (for selecting one of many choices)**
<input type="submit">	**Defines a submit button (for submitting the form)**
<form action="/action_page.php">	**The action is set to the current page.**

Media:

What is Multimedia?

Multimedia comes in many different formats. It can be almost anything you can hear or see.

Examples: Images, music, sound, videos, records, films, animations, and more.

Web pages often contain multimedia elements of different types and formats.

In this chapter you will learn about the different multimedia formats.

The HTML <video> Element

To show a video in HTML, use the <video> element:

Example

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

```
<source src="movie.ogg" type="video/ogg">
</video>
```

The HTML <audio> Element

To play an audio file in HTML, use the <audio> element:

Example

```
<audio controls>
  <source src="horse.ogg" type="audio/ogg">
  <source src="horse.mp3" type="audio/mpeg">
Your browser does not support the audio element.
</audio>
```

NOTE: THESE POINTS ARE INDICATIVE AND NOT EXHAUSTIVE. PLEASE ELLABORATE THE ANSWERS WITH PROPER EXAMPLES WHEREVER APPLICABLE.

Write answers for following

1 What is the use of redirection to another URL? Design a HTML page to demonstrate.

2 Explain any 3 semantic tags.

3 Differentiate between cell padding and cell spacing.

4 Explain <video> tag in HTML 5.

5 Explain with example how text based navigation bar is created?

6 How to format and position a division on a web page? Explain with example.

7 Explain tag with the help of suitable example.

8 Explain following attributes of td tag:
        i rowspan ii. colspan iii. th iv.font-color v. bgcolor

9 How is the clickable area created in imagemap? Explain with the help of an example.

10 List various tags used to embed audio in a page. Explain with example any two of them.