

Module 5 : Mernstack – HTML5

(Theory Assignment)

Question 1: Difference b/w HTML & HTML5?

Ans:-

Feature	HTML	HTML5
Version	Older versions like HTML 4.01	Latest version of HTML
Doctype Declaration	Long and complex	Simple: <code><!DOCTYPE html></code>
Multimedia Support	Requires plugins (e.g., Flash) For audio/video.	Built-in support for audio and video
New Elements	Limited semantic elements	Introduces semantic tags like <code><header></code> , <code><footer></code> , <code><article></code> , <code><section></code>
Form Enhancements	Fewer input types	New input types like email, date, range, etc.
APIs and Features	No support for APIs	Supports APIs like Geolocation, Web Storage, Canvas, and Drag-and-Drop
Mobile and Responsive Design	Less support	Designed with mobile and modern devices in mind
Browser Compatibility	Works with older browsers	Works with modern browsers, backward compatible

Question 2: What are the additional tags used in HTML5?

Ans:-

→ HTML5 introduced several **new semantic, multimedia, and functional tags** to improve structure and user experience. Here's a list of commonly used additional tags in HTML5:

- **Semantic Tags** (for better structure and readability):

Tag	Description
<header>	Defines the header section of a page or section
<footer>	Defines the footer section
<article>	Represents a self-contained piece of content
<section>	Defines a section in a document
<nav>	Represents navigation links
<aside>	Defines content aside from the main content (like a sidebar)
<main>	Represents the main content of the document
<figure>	Wraps media like images with captions
<figcaption>	Caption for the <figure> element
<mark>	Highlights text
<time>	Represents a date or time value

- **Multimedia Tags:**

Tag	Purpose
<audio>	Embeds audio files
<video>	Embeds video files
<source>	Specifies media source for <audio> or <video>

- **Graphics and Web Apps Tags:**

Tag	Purpose
<canvas>	Used to draw graphics via scripting (usually JavaScript)
<svg>	Embeds Scalable Vector Graphics (2D graphics)

- **Form-related Tags:**

Tag	Purpose
<datalist>	Provides autocomplete options for input fields
<output>	Represents the result of a calculation
<progress>	Displays the progress of a task
<meter>	Shows a scalar measurement (like disk usage)

(Lab Assignment)

Task : Create a audio video tag

- Also applied properties like muted loop autoplay
- Create some shape using canvas tag in html **// not completed yet**
- Create some shape using svg tag in html **// not completed yet**

Code :-

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Audio and Video Tag Example</title>
<style>
  body {
    font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;
    background-color: #f4f6f8;
    margin: 0;
    padding: 0;
  }

  .main {
    height: auto;
    width: 850px;
    border: 2px solid #ccc;
    margin: 30px auto;
    background-color: #ffffff;
```

```
    box-shadow: 0 8px 16px rgba(0, 0, 0, 0.1);
    border-radius: 10px;
}
```

```
.main-head {
    height: 60px;
    border-bottom: 2px solid #4a90e2;
    background-color: #4a90e2;
    color: white;
    display: flex;
    align-items: center;
    justify-content: center;
    border-top-left-radius: 10px;
    border-top-right-radius: 10px;
}
```

```
.mix {
    display: flex;
    gap: 20px;
    padding: 20px;
    justify-content: center;
}
```

```
.main-audio, .main-video {
    height: auto;
    width: 400px;
```

```
border: 2px solid #ddd;
border-radius: 10px;
background-color: #f9f9f9;
box-shadow: 2px 4px 12px rgba(0, 0, 0, 0.05);
}
```

```
.audio-head, .video-head {
  height: 50px;
  background-color: #e0f7fa;
  color: #00796b;
  display: flex;
  align-items: center;
  justify-content: center;
  font-weight: bold;
  border-bottom: 2px solid #b2dfdb;
  border-top-left-radius: 10px;
  border-top-right-radius: 10px;
}
```

```
.audio, .video {
  padding: 15px;
  display: flex;
  align-items: center;
  justify-content: center;
  background-color: #fff;
  border-bottom-left-radius: 10px;
```

```
border-bottom-right-radius: 10px;
}
```

```
audio, video {
    width: 100%;
    border-radius: 5px;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="main">
```

```
<div class="main-head">
```

```
<h2>Audio and Video Tags</h2>
```

```
</div>
```

```
<div class="mix">
```

```
<div class="main-audio">
```

```
<div class="audio-head">
```

```
<h4> 🎵 Audio</h4>
```

```
</div>
```

```
<div class="audio">
```

```
<audio controls loop muted autoplay>
```

```
<source src="image/Title Track Saiyaara 128 Kbps.mp3" type="audio/mpeg">
```

```
</audio>
```

```
</div>
```

```
</div>
```

```
<div class="main-video">
```

```
<div class="video-head">
```

```
<h4>🎬 Video</h4>
```

```
</div>
```

```
<div class="video">
```

```
<video width="335" height="280" muted loop autoplay controls>
```

```
<source src="image/Barbaad Song _ Saiyaara _ Ahaan Panday, Aneet Padda  
_ The Rish _ Jubin Nautiyal _ In Cinemas 18 July.mp4" type="video/mp4">
```

```
</video>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```