Module 5 – Mernstack – HTML5

Question 1: Difference b/w HTML & HTML5?

| **Feature** | **HTML (Old Versions)** | **HTML5 (Latest Version)** |
| --- | --- | --- |
| **Doctype Declaration** | Long and complex: <!DOCTYPE HTML PUBLIC...> | Simple: <!DOCTYPE html> |
| **Multimedia Support** | Requires plugins like Flash for audio/video | Built-in support using <audio> and <video> tags |
| **New Elements** | Limited elements like <div>, <span> | New semantic tags like <header>, <footer>, <section>, <article>, etc. |
| **Graphics** | Not supported directly | Supports <canvas> and SVG for graphics and drawing |
| **Form Features** | Basic input types only | New input types like email, date, range, etc. |
| **Browser Storage** | Only cookies | LocalStorage & SessionStorage (Web Storage API) |
| **Mobile Friendly** | Not responsive by default | Designed with mobile support and responsiveness in mind |
| **JavaScript APIs** | Limited support | Includes APIs like Geolocation, Drag & Drop, Web Workers |

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

**Semantic Tags (for better content structure):**

| **Tag** | **Purpose** |
| --- | --- |
| <header> | Defines a page or section header |
| <footer> | Defines a footer for a page or section |
| <nav> | Contains navigation links |
| <section> | Represents a section of a document |
| <article> | Independent, self-contained content |
| <aside> | Sidebar or related content |
| <main> | Main content of the document |
| <figure> | Contains images/illustrations with captions |
| <figcaption> | Caption for a <figure> element |
| <mark> | Highlights or marks text |
| <time> | Represents date/time |

**Multimedia Tags:**

| **Tag** | **Purpose** |
| --- | --- |
| <audio> | Embeds audio content |
| <video> | Embeds video content |
| <source> | Specifies multiple media sources |
| <track> | Adds subtitles or captions to video/audio |

**Graphics Tags:**

| **Tag** | **Purpose** |
| --- | --- |
| <canvas> | Used for drawing graphics via JavaScript |
| <svg> | Scalable Vector Graphics (XML-based) |

**Form Input Tags (New types):**

| **Input Type** | **Purpose** |
| --- | --- |
| <input type="email"> | For email input |
| <input type="date"> | Date picker |
| <input type="range"> | Slider control |
| <input type="color"> | Color picker |
| <input type="url"> | Website URL input |
| <input type="search"> | Search field |
| <input type="tel"> | Telephone number input |
| * **Lab Assignment** |  |

Task: Create a audio video tag Also applied properties like muted loop autoplay.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>HTML5 Audio and Video</title>

</head>

<body>

<h2>HTML5 Audio Example</h2>

<audio src="your-audio.mp3" autoplay muted loop controls>

</audio>

<h2>HTML5 Video Example</h2>

<video src="your-video.mp4" width="600" autoplay muted loop controls>

</video>

</body>

</html>