

# Theory Assignment

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## Question 1: Difference Between HTML and HTML5

Feature	HTML	HTML5
Definition	HyperText Markup Language	Latest version of HTML
Doctype Declaration	Complex and lengthy	Simple: <code>&lt;!DOCTYPE html&gt;</code>
Multimedia Support	Requires plugins (like Flash)	Built-in <code>&lt;audio&gt;</code> and <code>&lt;video&gt;</code>
Semantic Elements	Not available	Supports semantic tags ( <code>&lt;header&gt;</code> , <code>&lt;footer&gt;</code> , <code>&lt;article&gt;</code> )
Form Controls	Limited input types	New input types: date, email, range, etc.
Storage	No local storage	Supports Web Storage API ( <code>localStorage</code> , <code>sessionStorage</code> )
Browser Compatibility	Older browsers only	Modern browsers support HTML5

## Question 2: What Are the Additional Tags Used in HTML5?

HTML5 introduced many new tags to enhance web development, especially for better semantics, multimedia, and form controls.

### 1. Semantic Tags:

- `<header>` – Defines the header of a section/page
- `<footer>` – Defines the footer of a section/page
- `<section>` – Defines a section in a document
- `<article>` – Independent, self-contained content
- `<nav>` – Navigation links
- `<aside>` – Content aside from the main content
- `<main>` – Main content of the document
- `<figure>` and `<figcaption>` – Images with captions

### 2. Multimedia Tags:

- `<audio>` – Embeds audio content
- `<video>` – Embeds video content
- `<source>` – Specifies multiple media resources

### 3. Form Input Tags:

- New input types: email, tel, date, time, url, range, etc.

### 4. Graphics Tags:

- `<canvas>` – Draw graphics using JavaScript
- `<svg>` – Scalable Vector Graphics