**Theory Assignment:**

**Full-Stack : HTML5**

**Question 1:** Difference b/w HTML & HTML5?

| Point | HTML | HTML5 |
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| Definition | Standard markup language for creating webpages. | Latest version of HTML with advanced features. |
| Doctype | Long and complex declaration. | Simple: <!DOCTYPE html> |
| Multimedia | Needs external plugins (Flash) for audio & video. | Has built-in <audio> and <video> tags. |
| Graphics | No native support. | Supports <canvas> and <svg> for graphics. |
| Form Controls | Limited input types. | New input types like email, date, url, range, etc. |
| Semantic Tags | Uses mostly <div> and <span>. | Provides <header>, <footer>, <article>, <section>, <nav> etc. |
| Storage | Only cookies available. | LocalStorage & SessionStorage supported. |

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

**1. Semantic Structure Tags**

This help define the **meaning** of the content:

* <header> – Defines the header of a webpage/section.
* <footer> – Defines the footer of a webpage/section.
* <section> – Defines a thematic grouping of content.
* <article> – Represents an independent piece of content (like a blog post).
* <nav> – Defines navigation links.
* <aside> – Defines side content (like a sidebar).
* <main> – Defines the main content of the page.
* <figure> – Contains images, diagrams, illustrations.
* <mark> – Highlights or marks text.
* <time> – Represents time or dates.

**2. Multimedia Tags**

Used for audio and video without plugins:

* <audio> – Embeds audio.
* <video> – Embeds video.
* <source> – Specifies multiple media sources.
* <track> – Adds subtitles or captions to videos.

**3. Graphics & Interactive Tags**

* <canvas> – Draw graphics using JavaScript.
* <svg> – Scalable Vector Graphics (inline).

**4. Form-Related Tags**

HTML5 improved forms with new input types and tags:

* <datalist> – Provides autocomplete options.
* <output> – Displays calculation results.
* <progress> – Shows progress bar.
* <meter> – Shows a measurement (like disk usage).