***+HTML 5 THEORY ASSIGNMENT***

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

**ANSWER:** **Here is a comparison between HTML and HTML5:**

| **Feature** | **HTML** | **HTML5** |
| --- | --- | --- |
| **Version** | Older versions (like HTML 4.01) | Latest version of HTML |
| **Multimedia Support** | Requires plugins (like Flash) for audio and video | Built-in support for <audio> and <video> tags |
| **Doctype Declaration** | Long and complex: <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"...> | Simple: <!DOCTYPE html> |
| **New Tags** | Limited set of tags | New semantic elements like <header>, <footer>, <section>, <article>, etc. |
| **Graphics Support** | No native support; needs external plugins | Native support via <canvas> and SVG |
| **Storage** | Uses cookies for storing data | Includes Web Storage (localStorage & sessionStorage) |
| **Mobile Support** | Less optimized for mobile | Designed with mobile-first approach in mind |
| **Browser Compatibility** | Older browsers | Supported by all modern browsers |

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

**ANSWER:** HTML5 introduced many new semantic, media, graphics, and form-related tags to make web development cleaner and more functional.

**New 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 independent content like a blog post or article |
| <section> | Defines sections within a page |
| <nav> | Specifies navigation links |
| <aside> | Defines content that's tangentially related (like sidebars) |
| <main> | Represents the main content of a page |
| <figure> | Contains media elements like images with captions |
| <figcaption> | Caption for the <figure> element |
| <mark> | Highlights or marks text |

* **New Media Tags:**

| **Tag** | **Description** |
| --- | --- |
| <audio> | Embeds audio content |
| <video> | Embeds video content |
| <source> | Specifies multiple media resources |
| <track> | Provides captions/subtitles for media |

* **Graphics Tags:**

| **Tag** | **Description** |
| --- | --- |
| <canvas> | Used for drawing graphics via JavaScript |
| <svg> | Scalable Vector Graphics for 2D graphics (previously available, but better integrated in HTML5) |

* **New Form Input Types & Attributes:**

HTML5 added several new input types and attributes, such as:

* **New Input Types**:  
  email, date, time, url, range, color, tel, search, number
* **New Form Tags/Attributes**:  
  <datalist>, <output>, <progress>, <meter>, required, placeholder, autocomplete