**Module 5 – Frontend – HTML5**

### ****Question 1: Difference between HTML and HTML5****

**HTML** (Hyper Text Markup Language) is the standard language used to create web pages. **HTML5** is the **latest version** of HTML that brings improvements in structure, multimedia support, and performance.

The main differences between HTML and HTML5 are:

1. **Doctype Declaration**:  
   In HTML, the doctype declaration is long and complicated. For example:  
   <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN">  
   In HTML5, it is simplified to:  
   <!DOCTYPE html>
2. **Multimedia Support**:  
   HTML requires third-party plugins like Flash to add audio or video to web pages.  
   HTML5 includes built-in support for <audio> and <video> tags, allowing easier embedding of media.
3. **New APIs and Features**:  
   HTML5 supports many new features like **Canvas API** (for graphics), **Geolocation API**, **Local Storage** (to store data in the browser), and more. These were not available in earlier versions of HTML.
4. **Semantic Tags**:  
   HTML5 introduced several semantic tags such as <header>, <footer>, <article>, <section>, and <nav> which make the structure of a webpage more meaningful.  
   Older HTML mainly used non-semantic tags like <div> and <span>.
5. **Mobile-Friendly and Responsive**:  
   HTML5 is designed with mobile and responsive web design in mind. It provides better support for various devices and screen sizes.
6. **Performance and Browser Support**:  
   HTML5 is optimized for speed and works well with modern browsers. Older HTML versions are slower and not fully supported on new platforms.

In summary, HTML5 is a more powerful, cleaner, and mobile-friendly version of HTML with advanced multimedia and structural capabilities.

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

HTML5 introduced several **new tags** to improve **semantic meaning**, **structure**, and **media handling**.

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

| **Tag** | **Purpose** |
| --- | --- |
| <header> | Top section or intro content of a page |
| <footer> | Bottom section with links or copyright |
| <nav> | Contains navigation links |
| <section> | Defines a section of content |
| <article> | Independent piece of content (e.g., blog post) |
| <aside> | Sidebar or additional info |
| <main> | Main content of the page |

**🟦 Media Tags:**

| **Tag** | **Purpose** |
| --- | --- |
| <audio> | Embeds audio content |
| <video> | Embeds video content |
| <source> | Defines media sources for audio/video |

**🟥 Graphics and Interactive:**

| **Tag** | **Purpose** |
| --- | --- |
| <canvas> | Used for drawing graphics via JavaScript |
| <svg> | Embeds Scalable Vector Graphics |

**🟩 Form Input Types (new in HTML5):**

| **Input Type** | **Purpose** |
| --- | --- |
| date, email, url, range, color, number, search | Enhances form usability and validation |