HTML Complete Course (basic to advance)

1. Introduction to HTML:

   - Overview of HTML and its role in web development.

   - Understanding the structure of an HTML document.

   - Setting up a development environment.

2. HTML Basics:

   - HTML syntax and elements.

   - Working with tags, attributes, and values.

   - Creating headings, paragraphs, links, and images.

   - Using lists (ordered, unordered, and definition lists).

3. Working with Forms:

   - Creating forms to collect user input.

   - Input types (text, password, email, etc.).

   - Form validation and error handling.

   - Submitting form data to a server.

4. HTML5 Semantic Elements:

   - Introduction to semantic HTML5 elements (header, nav, section, article, footer, etc.).

   - Benefits of using semantic elements for improved accessibility and SEO.

5. HTML Tables:

   - Creating tables to organize tabular data.

   - Adding headers, rows, and cells.

   - Merging cells and creating complex table structures.

   - Styling tables with CSS.

6. HTML5 Media Elements:

   - Working with audio and video elements.

   - Embedding multimedia content on web pages.

   - Customizing playback controls and options.

   - Adding captions and subtitles.

7. HTML Links and Navigation:

   - Creating hyperlinks and anchor tags.

   - Linking to external pages, internal sections, and email addresses.

   - Creating navigation menus and site structure.

   - Using CSS to style links and navigation elements.

8. Responsive Web Design:

   - Building responsive layouts using media queries.

   - Creating fluid and adaptive designs.

   - Mobile-first approach and viewport meta tag.

   - Responsive images and breakpoints.

9. HTML Forms and CSS Styling:

   - Styling form elements using CSS.

   - Customizing form layouts and appearance.

   - Creating form validation and feedback.

   - Designing accessible and user-friendly forms.

10. HTML5 APIs and Advanced Features:

   - Geolocation API: Retrieving user's location information.

   - Web Storage: Working with localStorage and sessionStorage.

   - Drag and Drop: Enabling drag-and-drop functionality.

   - Web Workers: Performing background tasks.

11. Accessibility in HTML:

   - Understanding web accessibility principles.

   - Semantic HTML for accessibility.

   - Using ARIA attributes and roles.

   - Testing and improving accessibility of web pages.

12. Best Practices and Optimization:

   - HTML code organization and structure.

   - Semantic markup and meaningful content.

   - Optimizing HTML for performance and SEO.

- Testing, debugging, and cross-browser compatibility.

13. HTML and JavaScript Integration:

   - Adding interactivity with JavaScript.

   - DOM manipulation and event handling.

   - Working with HTML elements and attributes dynamically.

   - Creating interactive forms and UI elements.

14. Introduction to HTML5 Canvas and SVG:

   - Drawing graphics and animations using the Canvas element.

   - Scalable Vector Graphics (SVG) for creating vector-based graphics.

   - Adding interactivity and animations to Canvas and SVG elements.

15. Introduction to HTML Email Development:

   - Building HTML email templates.

   - Working with tables for layout.

   - Inline CSS styles and email-specific considerations.

   - Testing and troubleshooting email rendering in different clients.

16. HTML Frameworks and Libraries:

   - Overview of popular HTML frameworks (Bootstrap, Foundation, etc.).

   - Working with pre-built HTML templates and components.

   - Customizing and extending framework styles and functionality.