Web Technology
Practical Sheet

1. Create an HTML document with a <!DOCTYPE> declaration. Add <html>, <head>, and <body> tags. Inside the <head>, include a title and meta tags for character set and viewport. Use headings (<h1>, <h2>, ...), paragraphs (<p>).
2. Create an ordered list (<ol>) and an unordered list (<ul>), Format text using <b>, <i>, <u>, and <em> tags.
3. Create a table to display a weekly schedule.: Use <tr>, <th>, and <td> tags for rows, headers, and cells respectively. Add attributes for alignment, spacing, and background color. Include a caption using the <caption> tag. Merge cells using rowspan and colspan.
4. Work with images and image maps.
    o Client-Side Image Map: Insert an image using the <img> tag.
    o Create a client-side image map with clickable areas using the <map> and <area> tags.
    o Ensure each <area> has an alt attribute for accessibility.
5. Create a frameset that divides the page into two frames. Add content to each frame using the <frame> tag. Create a nested frameset within one of the frames. Target named frames using the target attribute in hyperlinks.
6. Form Creation: Create a form with various input fields: text, password, radio buttons, checkboxes, file upload, and a submit button.
7. Apply CSS to HTML documents.
    o Inline CSS: Style an element directly using the style attribute.
    o Internal CSS: Add a <style> section in the <head> to style elements within the document.
    o External CSS: Link an external CSS file using the <link> tag.
    o Use CSS selectors and properties to style elements.
8. Create an XML Schema (XSD) to define the structure of an XML document. Include elements with simple and complex types, and use facets for constraints.
9. Write an XSLT stylesheet to transform an XML document into HTML. Use XPath expressions to select and manipulate XML nodes.
10. Create a simple dynamic web page using a server-side language (e.g., PHP, ASP.NET).
11. Use session management to maintain state across multiple requests.
12. Connect to a database and perform CRUD operations using SQL (Select, Insert, Update, Delete).
13. Implement a simple authentication mechanism using a database.
14. Set, retrieve, and delete cookies in a web application.