

WEB DEVELOPMENT – 1 BY AKSHAT NETWORK HUB

Subject: Web Development – I

Subject Code: ANH/WD/2530/01

Program 1–8 (HTML Only)

Program 1: Basic Web Page Structure

Situation: You are asked to design a simple introductory webpage for a student who is learning web development for the first time. The page should demonstrate the basic structure of an HTML document and present clear, readable content using standard tags.

Tasks :-

1. Create a valid HTML document structure
 2. Use <title>, <h1>, and <p> tags
 3. Add a horizontal rule
 4. Include at least two paragraphs
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Program 2: Personal Profile Page

Situation: A student wants to create a personal profile page that introduces basic details such as name, course, and interests. The page should be simple and use only semantic HTML tags without any styling.

Tasks:-

1. Use heading tags appropriately
 2. Add ordered and unordered lists
 3. Insert line breaks where needed
 4. Maintain proper indentation
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Program 3: Hyperlinks and Navigation

Situation: Design a webpage that demonstrates navigation using hyperlinks. The page should guide users to different sections or external websites using anchor tags.

Tasks:-

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1. Create at least three hyperlinks
 2. Use target attribute for one link
 3. Link to an internal section
 4. Use descriptive link text
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Program 4: Images in HTML

Situation: Create a webpage for an image gallery introduction where images are displayed with proper descriptions. Focus only on correct usage of HTML image elements.

Tasks:-

1. Insert at least two images
 2. Use alt attributes
 3. Set image width or height
 4. Add captions using paragraphs
 5. Make a Hyperlink Image pointing to another image.
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Program 5: Tables for Data Display

Situation: A teacher needs a webpage to display student marks in a tabular format. The table should be clear, structured, and readable.

Tasks:-

1. Create a table with rows and columns
 2. Use <th> for headings
 3. Add at least three data rows
 4. Include a table caption
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Program 6: HTML Forms (Basic)

Situation: Design a simple feedback form for users to submit their name and comments. Only basic form elements should be used.

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Tasks:-

1. Create a form element
 2. Add text input and textarea
 3. Use labels properly
 4. Add a submit button
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Program 7: Lists and Nested Lists

Situation: Create a webpage that explains different web technologies using lists. The structure should include nested lists to show subcategories.

Tasks:-

1. Use ordered and unordered lists
 2. Create one nested list
 3. Add headings for sections
 4. Keep content well-structured
 5. Create a skill page showing your skills using List
 6. Use <dl>, <dt> & <dd> to demonstrate Definition list
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Program 8: Semantic HTML Layout

Situation: Develop a basic webpage layout using semantic HTML elements to represent header, main content, and footer sections.

Tasks:-

1. Use <header>, <main>, and <footer>
2. Add content inside each section
3. Use headings appropriately
4. Maintain semantic correctness
5. Add a Navbar in Header
6. Add Nav links to Navbar

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Program 9–15 (HTML + Embedded CSS)

Program 9: Styled Profile Page

Situation: Enhance a basic profile page by embedding CSS to improve appearance. The styling should focus on fonts, colors, and spacing.

Tasks:-

1. Embed CSS using `<style>` tag
 2. Change font family and color
 3. Apply background color
 4. Style headings and paragraphs
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Program 10: CSS Box Model

Situation: Create a webpage demonstrating the CSS box model by styling a content box with margin, padding, and border.

Tasks:-

1. Create a div element
 2. Apply margin and padding
 3. Add a visible border
 4. Change background color
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Program 11: Navigation Menu Styling

Situation: Design a simple navigation menu and enhance it with embedded CSS for better layout and readability.

Tasks:-

1. Create a list-based menu
2. Remove default list styling
3. Style links with CSS
4. Add hover effect

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Program 12: Table Styling with CSS

Situation: Improve the appearance of an HTML table using embedded CSS for borders, alignment, and colors. (Refer to Program – 5 and apply styles)

Tasks:-

1. Style table borders
 2. Align text properly
 3. Add background color to headers
 4. Apply padding to cells
 5. Apply Formatting to Table heading and column i.e., font-size , color , etc
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Program 13: Form Styling

Situation: Create a user registration form and use embedded CSS to make it visually appealing and user-friendly. (Refer to Program 6)

Tasks:-

1. Style input fields
 2. Adjust form width
 3. Style submit button
 4. Use spacing effectively
 5. Make Form UI Media Friendly (Mobile / Tablet / Laptop)
 6. Apply Basic form Validation within Html
 7. Use Dropdown Menu and Use <select> tag to create many Options to select one only .
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Program 14: Simple Page Layout

Situation: Design a webpage layout with header, content, and footer using div elements and CSS styling.

Tasks:-

1. Create three layout sections
2. Apply background colors

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3. Set width and alignment
 4. Add padding and margin
 5. Apply Background Image (If background image not found during runtime , auto apply background color)
 6. Create Footer with Copyright Statement
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Program 15: CSS Text Formatting

Situation: Create a content page where text formatting such as alignment, transformation, and spacing is controlled using CSS.

Tasks:-

1. Change text alignment
 2. Use text-transform property
 3. Adjust line-height
 4. Apply font styling
 5. Text Hover
 6. Opacity / Animation / Fading / Padding / Margin Concept
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Program 16–21 (HTML + Basic JavaScript)

Program 16: Alert Message

Situation: Create a webpage that displays a welcome alert message when the page loads to introduce JavaScript interaction.

Tasks:-

1. Use `<script>` tag
2. Display alert message
3. Write proper JavaScript syntax
4. Embed script in HTML
5. Learn about `console.log` (within Code Editor / Chrome Console)

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6. Use console.log in `<script> </script>` tags to print Hello World in Code Editor Terminal / Browser Console in Inspection Mode .
 7. Use Internal (`<script> </script>`) or external (`script.js`) and Learn the ways of linking script to our Html.
 8. Use inline basic JS Execution with `<script>` i.e., `<body onload="alert('Welcome to our Webpage')">`
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Program 17: Button Click Event

Situation: Design a webpage where clicking a button displays a message, demonstrating event handling in JavaScript.

Tasks:-

1. Create a button
 2. Write a JavaScript function
 3. Trigger function on click
 4. Display output using alert
 5. Create a heading with id = "title" without any content . Use JS and DOM to dynamically inject content when a button is click .
 6. Show a Welcome alert when a button is click
 7. Create a button that trigger a action but before execution ask for confirmation from Users.
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Program 18: Changing Text Using JavaScript

Situation: Create a webpage where JavaScript changes the text content of an HTML element when a button is clicked.

Tasks:-

1. Use getElementById
2. Change inner text
3. Add a button
4. Write a function

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5. Create a loop statement to print “Hello World” 15 times using <h3> tags with unique id to each heading dynamically injected in <div id=“content”> </div> using JavaScript looping and innerHTML . (Use for loop , while loop and do-while loop) and write separate program with file name as **loop_type.html**

Program 19: Simple Calculator (Addition)

Situation: Develop a basic calculator that takes two numbers and displays their result using JavaScript.

Tasks:-

1. Create input fields
 2. Use JavaScript to read values
 3. Perform addition
 4. Perform Subtraction
 5. Perform Multiply / Divide / Remainder
 6. Create Button for each action and call relevant function to store result and display in id “res”
 7. Display result on page
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Program 20: Input Validation

Situation: Create a form that checks whether the user has entered data before submission using basic JavaScript validation. (Refer to Program – 13)

Tasks:-

1. Create a form with input
 2. Write validation function
 3. Prevent empty submission
 4. Display warning message
 5. Store data in Local storage / IndexedDB to reinforce Duplicate data
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Program 21: Dynamic Greeting Injection Using **forEach**

Situation: You are developing a dynamic webpage where multiple greeting messages must be displayed automatically. Instead of a traditional loop counter, JavaScript array iteration is used. Each message should be injected dynamically into a webpage using `<h3>` elements inside a container.

Tasks:-

1. Create a `<div>` with id content
2. Use a JavaScript array with 15 values
3. Loop through the array using `forEach()`
4. Inject `<h3>` elements dynamically using `innerHTML`
5. Assign a unique id to each `<h3>`

End of Practical Program List

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Learning Club → Key of Success Learning Point

References :-

➤ **For the Resource / Notes / Solutions / Codes Related to above Practical List , Kindly refer to :-**

- ✓ **Pdf Resources :-** <https://akshat-881236.github.io/LearningClub-Key-of-Success-Learning-Point/>
- ✓ **Web Development Course Resources :-** <https://akshat-881236.github.io/WebDevelopmentCourse/>
- ✓ **Html Tutorials :-** <https://akshat-881236.github.io/WebDevelopmentCourse/Html/Tutorial/index.htm>
- ✓ **Html Practical Solution :-** <https://akshat-881236.github.io/WebDevelopmentCourse/Html/Practical/index.htm>