

# **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
- 

### **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
- 

### **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:-**

# **WEB DEVELOPMENT – 1 BY AKSHAT NETWORK HUB**

1. Create at least three hyperlinks
  2. Use target attribute for one link
  3. Link to an internal section
  4. Use descriptive link text
- 

## **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.
- 

## **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
- 

## **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.

# WEB DEVELOPMENT – 1 BY AKSHAT NETWORK HUB

## Tasks:-

1. Create a form element
  2. Add text input and textarea
  3. Use labels properly
  4. Add a submit button
- 

## 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
- 

## 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

# WEB DEVELOPMENT – 1 BY AKSHAT NETWORK HUB

---

## 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
- 

## 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
- 

## 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

# WEB DEVELOPMENT – 1 BY AKSHAT NETWORK HUB

---

## 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
- 

## 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 .
- 

## 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

# **WEB DEVELOPMENT – 1 BY AKSHAT NETWORK HUB**

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
- 

## **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
- 

## **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 )

# **WEB DEVELOPMENT – 1 BY AKSHAT NETWORK HUB**

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')">

---

## **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.
- 

## **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

# WEB DEVELOPMENT – 1 BY AKSHAT NETWORK HUB

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
- 

## 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 / IndexDB to reinforce Duplicate data
-

# **WEB DEVELOPMENT – 1 BY AKSHAT NETWORK HUB**

## **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**

**Akshat Network Hub | All Right Reserved**

**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>