

Module 6 – HTML, CSS and JS in PHP

➤ HTML Basics

1. What is HTML? Explain its structure.

HTML stands for **Hyper Text Markup Language**. HTML is the standard markup language for **creating Web pages(WEBSITE)**. HTML describes the structure of a Web page. HTML consists of a series of elements `<div></div><p></p>`. HTML elements/tag tell the browser how to display the content. HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link, images", etc.

Structure:

```
<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

</head>

<body>

<h1>This is a Heading</h1>

<p>This is a paragraph.</p>

</body>

</html>
```

2. Describe the purpose of HTML tags and provide examples of commonly used tags.

HTML tags are the building blocks of an HTML document. Their main purpose is to:

- Structure the content of a web page.
- Define different types of content (like headings, paragraphs, images, links).
- Help the browser understand how to display content.
- Provide semantic meaning, making web pages more accessible and SEO-friendly.

Example of commonly used tags:

```
<h1>-<h6>, <p></p>,<a></a>, <img>, <ul> and <li>, <ol> and <li>, <div></div>, <br>, <hr>.
```

3. What are the differences between block-level and inline elements? Give examples of each.

- **Block-level elements**

Definition: These elements always start on a new line and take up the full width available (by default, stretching left to right).

Behavior:

- **Occupy the entire width of their parent container.**
- **Can contain other block-level elements and inline elements.**
- **Respect top and bottom margins.**

Examples:

- `<div>`
- `<p>`
- `<h1>` to `<h6>`
- ``, ``, ``
- `<table>`
- `<form>`
- `<section>`, `<article>`, `<header>`, `<footer>`

- **Inline elements**

Definition: These elements do not start on a new line and only take up as much width as their content requires.

Behavior:

- **Flow inside a line of text.**
- **Do not respect top and bottom margins (only left and right).**
- **Usually cannot contain block-level elements (only text or other inline elements).**

Examples:

- ``
- `<a>`
- ``, ``
- `<i>`, ``
- ``
- `<label>`
- `<input>`, `<textarea>`, `<select>`

4. Explain the concept of semantic HTML and why it is important.

Semantic HTML means writing HTML in a way where the tags themselves describe the meaning of the content. Instead of only using generic elements like `<div>` or ``, semantic tags (like `<header>`, `<nav>`, `<article>`) tell both the browser and the

- **Importance of Semantic HTML :-**

1. **Accessibility**

- Screen readers and assistive technologies understand the structure better.

2. **SEO (Search Engine Optimization)**

- Search engines can better interpret and rank content.

3. **Readability for Developers**

- Code is cleaner and easier to understand.

4. **Consistency Across Browsers**

- Semantic tags are standardized and future-proof.

5. **Separation of Concerns**

- Content meaning (HTML) stays separate from styling (CSS).

➤ **CSS Fundamentals**

1. What is CSS? How does it differ from HTML?

CSS stands for **Cascading Style Sheets**.

It is used to **style and design webpages built with HTML**.

With CSS, you can control:

Colors, Fonts, Layouts (grid, flexbox), Spacing (margins, padding), Animations & effects, Responsive design (mobile-friendly).

Feature	HTML (Content & Structure)	CSS (Style & Design)
Purpose	Defines content & structure	Defines styling & layout
Focus	“What is on the page?”	“How should it look?”
File Extension	.html	.css
Examples	<h1>, <p>, , <table>	color: red;, margin: 10px;, font-size: 18px;
Dependency	Can exist alone (basic webpage works)	Needs HTML to apply styles
Analogy	Skeleton of a body	Clothes & makeup for appearance

2. Explain the three ways to apply CSS to a web page.

➤ Inline CSS

- CSS is applied directly to an element using the style attribute inside the HTML tag.
- It affects only that specific element.
- Best for quick styling but not recommended for larger projects (hard to maintain).

Example:

```
<p style="color: blue; font-size: 18px;">This is inline CSS</p>
```

➤ Internal CSS (Embedded CSS)

- CSS rules are written inside the <style> tag within the <head> section of the HTML document.
- Used when styling is specific to a single page.

Example:

```
<!DOCTYPE html>

<html>

<head>

<style>

    p {

color: green;

        font-size: 20px; }

</style>

</head>

<body>

<p>This is internal CSS</p>

</body>

</html>
```

➤ External CSS

- CSS is written in a separate .css file.
- The file is linked to the HTML document using the <link> tag inside the <head>.
- Best practice for large websites (easy to maintain and reuse).

Example:**style.css**

```
p {  
  color: red;  
  font-size: 22px;  
}
```

index.html

```
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
<link rel="stylesheet" href="style.css">  
  
</head>  
  
<body>  
  
<p>This is external CSS</p>  
  
</body>  
  
</html>
```

3. What are CSS selectors? List and describe the different types of selectors.

CSS selectors are patterns used to “select” HTML elements so that styles can be applied to them.

They tell the browser which elements to style.

Types of Selectors :

Universal Selector (*) :- Targets all elements

Example: * { margin: 0; }

Element Selector :- Targets elements by tag name

Example: p { color: blue; }

Class Selector (.) :- Targets elements with a specific class

Example: .highlight { background: yellow; }

ID Selector (#) :- Targets a single element with a specific ID

Example:

```
#header {  
    font-size: 24px;  
}
```

Group Selector :- Targets multiple selectors at once

Example: `h1, h2, p { color: green; }`

Descendant Selector :- Targets elements inside another element

Example: `div p { font-style: italic; }`

Child Selector (>) :- Targets direct children

Example: `ul > li { list-style: none; }`

Pseudo-class Selector (:-) :- Targets elements in a specific state

Example: `a:hover { color: red; }`

4. What is the box model in CSS? Explain its components

The CSS Box Model is the fundamental concept that describes how every HTML element is treated as a rectangular box in a webpage. It defines how space is taken up around elements and how their size is calculated.

Components of the CSS Box Model

Each element's box consists of four layers (from inside out):

1. Content

- The actual text, image, or data inside the element.
- Controlled by properties like width, height, font-size, etc.

2. Padding

- The space between the content and the border.
- Makes space inside the box, around the content.
- Background color applies to both content + padding.

3. Border

- The line surrounding the padding (and content).
- Controlled by border-width, border-style, border-color.

4. Margin

- The space outside the border (between this element and others).
- Creates distance between elements.

➤ **Responsive Web Design:-**

1. What is responsive web design? Why is it important?

Responsive Web Design is an approach in which a website's layout and elements automatically adjust to fit different screen sizes and devices (desktop, laptop, tablet, mobile). It ensures the site looks good and usable everywhere, without needing separate versions.

Mobile-first world

- Most users access the internet via smartphones.
- A site must be mobile-friendly to retain visitors.

Better User Experience (UX)

- Users don't need to zoom or scroll awkwardly.
- Content adapts neatly to their screen.

Improves SEO (Search Engine Optimization)

- Google favors mobile-friendly sites in search rankings.

Cost-effective

- No need to maintain separate "desktop site" and "mobile site."
- One design works everywhere.

Consistency

- Ensures branding and content remain uniform across devices.

Future-proofing

- Works across new devices with varying screen sizes.

2. Explain the use of media queries in CSS. Provide an example.

Media queries are a CSS feature that allows you to apply styles only when certain conditions are true (like screen size, orientation, resolution, etc.).

They make websites responsive, so the layout adapts to different devices (mobile, tablet, desktop).

Example:

```
/* Default styles for desktop */  
  
body {  
    background-color: white;  
    font-size: 18px;  
}  
  
/* For tablets (screens 768px or smaller) */  
  
@media (max-width: 768px) {  
    body {  
        background-color: lightblue;  
        font-size: 16px;  
    }  
}  
  
/* For mobile phones (screens 480px or smaller) */  
  
@media (max-width: 480px) {  
    body {  
        background-color: lightgreen;  
        font-size: 14px;  
    }  
}
```

3. What are the benefits of using a mobile-first approach in web design?

A mobile-first approach in web design means starting the design process with mobile devices in mind and then progressively enhancing the design for larger screens like tablets and desktops.

Benefits of using this approach:

1. Improved User Experience (UX)

- Ensures content and features are prioritized for small screens, making navigation simple and efficient.
- Eliminates clutter by focusing on the essentials first.

2. Better Performance

- Mobile-first sites usually load faster because they are optimized for smaller devices and slower networks first.
- Reduces heavy resources (images, scripts) that could slow down performance.

3. Responsive by Default

- Since the design starts from the smallest screen, scaling up for larger devices becomes easier and more natural.
- Helps avoid issues like broken layouts or text that doesn't fit on small screens.

4. Higher Accessibility

- Ensures that users on low-bandwidth or limited devices can still access the website effectively.
- Makes content more universally available.

5. SEO Advantages

- Google uses **mobile-first indexing**, meaning it primarily crawls and ranks the mobile version of a site.
- A mobile-first design can improve search engine rankings.

6. Future-Proof Design

- With the growing number of mobile users worldwide, designing for mobile ensures long-term relevance.
- Prepares websites for wearables, tablets, and other small-screen devices that may emerge.

7. Focused Content Strategy

- Forces designers to prioritize the most important features and content.
- Prevents overwhelming users with unnecessary elements.

➤ PHP Integration

1. How can PHP be used to dynamically generate HTML content? Provide examples.

PHP is a **server-side scripting language that can generate HTML content dynamically before sending it to the browser**. This allows you to create web pages that change based on user input, database queries, conditions, or external data.

Example:

```
<html>

<head>

<title> Dynamic HTML </title>

</head>

<body>

<h1>Welcome </h1>

<p>

<?php
$name = "Dhruv";
echo "Hello,".$name;
?>

</p>

</body>

</html>
```

2. Explain how to include CSS files in a PHP-generated HTML page.

When you generate HTML with PHP, you include CSS the **same way as in normal HTML** — using the <link> tag (for external CSS) or <style> (for internal CSS).

```
<?php
echo '<!DOCTYPE html>

<html>
```

```
<head>

<title>PHP with CSS</title>

<link rel="stylesheet" type="text/css" href="style.css">

</head>

<body>

<h1>Hello, styled with CSS!</h1>

</body>

</html>';

?>
```

3. What are the advantages of using PHP to manage HTML forms?

Using PHP to manage HTML forms has several advantages:

1. Server-Side Processing

- PHP can handle form submissions securely on the server (unlike JavaScript which is client-side).
- Useful for sensitive data like passwords, payments, etc.

2. Data Validation & Sanitization

- PHP can check if fields are filled, validate email/phone formats, and sanitize inputs to prevent SQL Injection or XSS attacks.

3. Database Integration

- Form data can be easily stored, updated, or retrieved from databases like MySQL using PHP.

4. Dynamic Feedback

- PHP can generate custom responses (e.g., "Welcome, Riddhi!" after login).
- Can redirect users or display error/success messages dynamically.

5. File Handling

- PHP allows file uploads (images, documents) via forms and manages them on the server.

6. Session & Cookie Handling

- Form data can be linked with sessions/cookies for login systems, shopping carts, or user tracking.

7. Cross-Platform & Open Source

- Works on all major servers and operating systems.
- Free and widely supported.

➤ LAB EXERCISES

1. Creating a Simple Web Page

Objective: Create a basic web page using HTML and style it with CSS.

Instructions:

Create an HTML file (e.g., index.html) that includes a header, a navigation bar, a main content section, and a footer.

Style the page using an external CSS file (e.g., styles.css).

Use CSS properties such as color, background-color, font-size, and padding to enhance the design.

Code:-

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<title>Basic Page</title>
```

```
<link rel="stylesheet" href="style.css">

</head>

<body>

  <div class="header">

    <h1>This Is My Page</h1>

  </div>

  <div class="nav">

    <a href="#">Home</a>

    <a href="#">About </a>

    <a href="#">Services</a>

    <a href="#">Contact</a>

  </div>

  <div class="content">

    <h2>About This Page</h2>

    <p>This page is created using simple HTML and styled with CSS.</p>

  </div>

  <div class="footer">

    <p>Copyright © 2025</p>

  </div>

</body>

</html>
```

CSS File:

```
body {

  font-family: Verdana, sans-serif;

  margin: 0;

  background-color: rgb(110, 194, 15);
```

```
}  
  
.header {  
    background-color: #ce801a;  
color: rgb(15, 10, 10);  
    padding: 15px;  
    text-align: center;  
}  
  
.nav {  
    background-color: #333;  
    text-align: center;  
    padding: 10px;  
}  
  
.nav a {  
color: white;  
    text-decoration: none;  
    margin: 0 15px;  
}  
  
.content {  
    padding: 186px;  
    text-align: center;  
}  
  
.footer {  
    background-color: #0066cc;  
color: white;  
    text-align: center;  
    padding: 10px;  
}
```

2. Form Handling with PHP

Objective: Create a simple HTML form and process it using PHP.

Instructions:

Create an HTML form that collects user information (e.g., name, email, and message).

Use PHP to process the form data and display a confirmation message with the submitted information.

Validate user inputs and provide appropriate feedback.

CODE:-

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Contact Form</title>

</head>

<body>

<h2>Contact Us</h2>

<form action="" method="post">

<label for="name">Name:</label><br>

<input type="text" name="name" id="name" required><br><br>

<label for="email">Email:</label><br>

<input type="email" name="email" id="email" required><br><br>

<label for="message">Message:</label><br>

<textarea name="message" id="message" rows="4" required></textarea><br><br>

<input type="submit" value="Submit">
```

```
</form>

</body>

</html>

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    echo "<h2>Submitted Data:</h2>";
    echo "Name: " . $_POST['name'] . "<br>";
    echo "Email: " . $_POST['email'] . "<br>";
    echo "Message: " . $_POST['message'] . "<br>";
}
?>
```

3. Dynamic Content Generation

Objective: Use PHP to generate dynamic HTML content.

Instructions:

Create a PHP script (e.g., dynamic-content.php) that generates a list of items (e.g., products or blog posts) from an array.

Use a loop to display the items in a styled HTML list.

Style the list using CSS.

4. CSS Grid and Flexbox

Objective: Create a responsive layout using CSS Grid or Flexbox.

Instructions:

Build a grid layout for a gallery of images or a product showcase using either CSS Grid or Flexbox.

Ensure that the layout is responsive and adjusts based on the screen size.

Use media queries to change the layout for mobile devices.

CODE:-

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Responsive Gallery</title>

<style>

  body {

    font-family: Arial, sans-serif;

    background: #f4f4f9;

    margin: 0;

    padding: 20px;

  }

  h2 {

    text-align: center;

    color: #333;

  }

  .gallery {

    display: grid;

    grid-template-columns: repeat(4, 1fr);

    gap: 15px;

    margin-top: 20px;

  }

  .gallery img {

    width: 100%;
```

```

height: 280px;

border-radius: 8px;

box-shadow: 0 2px 6px rgba(0,0,0,0.2);

}

@media (max-width: 900px) {

  .gallery {

    grid-template-columns: repeat(2, 1fr);

  }

}

@media (max-width: 600px) {

  .gallery {

    grid-template-columns: 1fr;

  }

}

</style>

</head>

<body>

<h2>Responsive Image Gallery</h2>

<div class="gallery">

<img

src="
CgkLDRYPDQwMDRsUFRAWIB0iliAdHx8kKDQsJCYxJx8fLT0tMTU3Ojo6lYS/RD84QzQ5OjcBCgo
KDQwNGg8PGJclHyU3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nz
c3Nzc3N//AAAEIAJQAIAMBEQACEQEDEQH/xAAcAAACAwEBAQEAAAAAAAAAAADBQIEBgE
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```

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XqnJpUqUoJSdxqZTkUqVFAZ4Sc0mPsmISogGAnNSjmlSrgSE1Ida9pUQDXGBkUgxxSpUGcSxM
SvNeNwa8pUwnZNH0+VTqxK817SpkTZ5mlSpUQH/9k=" alt="Image 3">


```


</div>

</body>

</html>
```

5. Styling a PHP Application

Objective: Apply CSS styles to a PHP web application.

Instructions:

Create a simple PHP application (e.g., a user registration page).

Use an external CSS file to style the form elements (e.g., inputs, buttons, labels).

Ensure that the application is visually appealing and user-friendly.

CODE:-

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Contact Form</title>

<link rel="stylesheet" href="A-Q-5.css">

</head>

<body>

<div class="">

<h2>User Registration</h2>

<form action="" method="post">

<label for="name">Name:</label><br>

<input type="text" name="name" id="name" required><br><br>
```

```
<label for="email">Email:</label><br>
<input type="email" name="email" id="email" required><br><br>
<label for="password"> Password:</label><br>
<input type="password" name="password" id="password" required><br><br>
        <button type="submit" value="submit"> Submit </button>
</form>
```

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    echo "<h2>Submitted Data:</h2>";
    echo "Name: " . $_POST['name'] . "<br>";
    echo "Email: " . $_POST['email'] . "<br>";
    echo "Password: " . $_POST['password'] . "<br>";
}
?>
</div>
</body>
</html>
```

CSS file:-

```
body {
    font-family: Arial, sans-serif;
    background: #f3f4f6;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
```

```
margin: 0;  
}
```

```
.header {  
  background: #fff;  
  padding: 25px;  
  border-radius: 12px;  
  box-shadow: 0 4px 10px rgba(0,0,0,0.15);  
  width: 350px;  
}
```

```
h2 {  
  text-align: center;  
  color: #333;  
  margin-bottom: 20px;  
}
```

```
label {  
  display: block;  
  margin: 10px 0 5px;  
  color: #444;  
  font-weight: bold;  
}
```

```
input {  
  width: 100%;  
  padding: 10px;  
  border: 1px solid #ccc;
```

```
border-radius: 6px;  
margin-bottom: 15px;  
font-size: 14px;  
}
```

```
input:focus {  
    border-color: #007bff;  
    outline: none;  
}
```

```
button {  
    width: 100%;  
    padding: 12px;  
    background: #007bff;  
    border: none;  
    border-radius: 6px;  
color: white;  
    font-size: 16px;  
    cursor: pointer;  
    transition: 0.3s;  
}
```

```
button:hover {  
    background: #0056b3;  
}
```

6. Implementing a Responsive Navigation Bar

Objective: Create a responsive navigation bar using HTML and CSS.

Instructions:

Build a navigation bar using HTML and elements.

Use CSS to style the navigation bar and make it responsive (e.g., using media queries).

Implement a dropdown menu for sub-navigation items.

CODE:-

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Basic Page</title>

<link rel="stylesheet" href="A-Q-1.css">

</head>

<body>

<div class="header">

<h1>Header </h1>

</div>

<div class="menu">

<a href="#">Home</a>

<a href="#">About</a>

<a href="#">Services</a>

<a href="#">Contact</a>

</div>

</body>

</html>
```

CSS File:

```
body {

    font-family: Verdana, sans-serif;

    margin: 0;
```



```
        background-color: rgb(110, 194, 15);
    }

    .header {
        background-color: #ce801a;
        color: rgb(15, 10, 10);
        padding: 15px;
        text-align: center;
    }

    .nav {
        background-color: #333;
        text-align: center;
        padding: 10px;
    }

    .nav a {
        color: white;
        text-decoration: none;
        margin: 0 15px;
    }
}
```

7. Image Gallery with Lightbox Effect

Objective: Create an image gallery that opens images in a lightbox effect.

Instructions:

Use HTML to create a gallery of images.

Implement CSS for styling and layout.

Use JavaScript or a CSS library to create a lightbox effect when images are clicked.

CODE:-

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Lightbox Gallery</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<h2>Image Gallery</h2>

<div class="gallery">

<a href="#img1">
</a>
<a href="#img2">
</a>
<a href="#img3">
</a>
<a href="#img4">< https://encrypted-
tbn0.gstatic.com/images?q=tbn:ANd9GcQoRh9o1uTWRPGq7wVFuS-
5tzwXOywtG6X_6H7_7hk9gNQzY-hdypn0uvU&s ="img8.webp" alt="Image 4">
</a>
</div>

<!-- Lightbox -->

<div class="lightbox" id="img1">

<a href="#" class="close">&times;</a>

<imgsrc="img1.jpg" alt="Image 1">

</div>
```

```
<div class="lightbox" id="img2">  
<a href="#" class="close">&times;</a>  
<imgsrc="img2.webp" alt="Image 2">  
</div>
```

```
<div class="lightbox" id="img3">  
<a href="#" class="close">&times;</a>  
<imgsrc="img7.webp" alt="Image 3">  
</div>
```

```
<div class="lightbox" id="img4">  
<a href="#" class="close">&times;</a>  
<imgsrc="img8.webp" alt="Image 4">  
</div>  
</body>  
</html>
```

CSS File:-

```
body {  
    font-family: Arial, sans-serif;  
    background: #f9f9f9;  
    text-align: center;  
    padding: 20px;  
}
```

```
h2 {  
    margin-bottom: 20px;  
}
```

```
.gallery {  
  display: flex;  
  justify-content: center;  
  gap: 15px;  
  flex-wrap: wrap;  
}
```

```
.gallery img {  
  width: 500px;  
  border-radius: 6px;  
  cursor: pointer;  
  transition: transform 0.3s;  
}
```

```
.gallery img:hover {  
  transform: scale(1.05);  
}
```

```
/* Lightbox styling */  
.lightbox {  
  display: none;  
  position: fixed;  
  top: 0; left: 0;  
  width: 100%;  
  height: 100%;  
  background: rgba(0,0,0,0.85);  
  justify-content: center;
```

```
align-items: center;
z-index: 999;
}
```

```
.lightbox img {
  max-width: 90%;
  max-height: 80%;
  border-radius: 8px;
  box-shadow: 0 0 15px #000;
}
```

```
.lightbox:target {
  display: flex;
}
```

```
.close {
  position: absolute;
  top: 20px;
  right: 30px;
  font-size: 32px;
  color: white;
  text-decoration: none;
}
```

```
.close:hover {
  color: red;
}
```

