

ASSIGNMENT-1

- ❖ QUESTION-1:- Explain the structure of an HTML document and the purpose of DOCTYPE

➤ ANS:- <!DOCTYPE html>

Purpose: Tells the browser which version of HTML the page is written in.

Modern HTML uses:

- html
- Copy
- Edit

<!DOCTYPE html>

- This indicates HTML5 and triggers standards mode in browsers (so they render the page according to the HTML spec, not in quirky legacy ways).
- Without it, browsers may switch to quirks mode, which tries to emulate old browser behavior — often causing inconsistent layouts.

2. <html> Element

- html
- Copy
- Edit
- <html lang="en">
- <p>Hello World</p>
- <html> → root element
- <head> → metadata

- `<body>` → main content
- `<header>`, `<footer>`, `<main>`, `<section>`, `<article>`, `<nav>`

3. `<head>` Section

- Holds metadata (data about the document), not visible on the page.

Example:

- HTML

```
<head>
```

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

```
<title>My Page Title</title>
```

```
<meta name="description" content="A short description of the page">
```

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

```
</head>
```

- **Key elements in `<head>`:**

- `<meta charset="UTF-8">` → character encoding.
- `<title>` → text shown in browser tab and used by search engines.

- `<link>` → links to external CSS, icons, etc.
- `<script>` (optional) → JavaScript files (can also go before `</body>` for performance).
- `<meta>` tags for SEO, responsive design (viewport), etc.

4. `<body>` Section

Contains the visible content of the webpage — text, images, videos, links, forms, etc.

➤ Example:

html

Copy

Edit

```
<body>
```

```
  <h1>Welcome</h1>
```

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

```
  
```

```
</body>
```

Complete HTML5 Skeleton

html

Copy

Edit

```
<!DOCTYPE html>
```

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

```
<head>
```

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

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

```
<title>Document Title</title>

</head>

<body>

  <h1>Hello, world!</h1>

  <p>This is a basic HTML structure.</p>

</body>

</html>
```

❖ QUESTION 2;-. List and explain at least five common HTML tags used in website design

➤ **ANS;**

➤ - **1. <h1> to <h6> — Headings**

- Used for **titles and section headings**.
- <h1> is the largest and most important heading; <h6> is the smallest.
- Example:
 - <h1>Main Title</h1>
 - <h2>Subheading</h2>

- **Tip:** Search engines use headings to understand page structure.

➤ **2. <p> — Paragraph**

- Used for **text blocks**.
- Automatically adds space above and below the text.
 - Example:
- <p>This is a paragraph of text.</p>

➤ **3. <a> — Anchor (Link)**

- Creates **hyperlinks** to other pages, sections, or files.
- Example:

➤ `Visit Example`

➤ **Attributes:**

- href → URL to link to
- target="_blank" → opens in a new tab

➤ **4. — Image**

➤ Displays an image on the page.

➤ Example:

➤ ``

➤ Attributes:

- src → image file path
- alt → description for accessibility & SEO

➤

➤ **5. <div> — Division**

➤ A **container** for grouping other elements.

➤ Often used for layout, styling, or scripting purposes.

➤ Example:

➤ `<div class="content">
 <p>Some text inside a division.</p>
</div>`

❖ **QUESTION 3:- Describe the difference between block-level and inline elements in HTML.**

ANS:- 1. Block-level Elements

- **Start on a new line** by default.
- Take up the **full width** of their parent container (even if content is shorter).
- Can contain **other block-level elements** and **inline elements**.
- Used for **page structure** and grouping larger sections.
- Examples:

`<div>`, `<p>`, `<h1>`–`<h6>`, `<section>`, `<article>`, `<header>`, `<footer>`, ``,
``, ``

- Example in action:

```
<p>This is paragraph one.</p>
<p>This is paragraph two.</p>
```

These will appear on separate lines.

2. Inline Elements

- **Do not start on a new line.**
- Take up **only as much width** as needed for their content.
- Usually contained **within block-level elements**.
- Used for **styling or linking small portions** of text or content.
- Examples:

, <a>, , , , <label>

- Example in action:ion:
- <p>This is bold text and italic text in one line.</p>