

# MERN Stack Journey

## Class 1: Introduction to HTML & CSS (HTML Basics)

---

### 1. What is HTML?

HTML (HyperText Markup Language) is used to create the **structure of web pages**. It tells the browser *what* content to display.

---

### 2. Basic Structure of an HTML Document


Every HTML file follows a fixed structure.

#### Correct Basic Structure

```
<!DOCTYPE html>
<html>
  <head>
    <!-- Metadata goes here -->
  </head>
  <body>
    Your code goes here
  </body>
</html>
```

#### Explanation:

- `<!DOCTYPE html>` → Tells the browser this is an HTML5 document
- `<html>` → Root element of the page
- `<head>` → Contains metadata (title, links, styles)
- `<body>` → Contains visible content of the web page

 **Important Note:** All visible content must be written **inside the** `<body>` tag.

---

#### MCQ Practice

Q1. What is the correct basic structure of an HTML document?

A)

```
<!DOCTYPE html>
<html>
```

```
<head></head>
<body>
  Your code goes here
</body>
</html>
```

B)

```
<!DOCTYPE html>
<html>
  <head>
    Your code goes here
  </head>
</html>
```

 **Answer:** A

---

**Q2. According to the basic structure of HTML, your code goes inside the `<body>` tag.**

- A) True  
B) False

 **Answer:** True

---

### 3. Heading Element

The HTML heading element is used to define headings.

**Example:**

```
<h1>Tourism</h1>
```


**Key Points:**

- `<h1>` defines the **main heading**
- Headings range from `<h1>` (largest) to `<h6>` (smallest)

**MCQ Practice**

**Q1. The HTML h1 element is known as the \_\_\_\_ element.**

- A) Paragraph  
B) Button  
C) Main heading

 **Answer:** Main heading

---

**Q2. Which of the following is the start tag of an HTML main heading element?**

- A)
- B)
- C)

 **Answer:**

---

**Q3. Which of the following is the end tag of an HTML main heading element?**

- A)
- B)
- C)

 **Answer:**

---

## 4. Paragraph Element

The HTML paragraph element is used to define paragraphs.

**Example:**

```
<p>Plan your trip wherever you want to go</p>
```

### MCQ Practice

**Q1. Which of the following is the start tag of an HTML paragraph element?**

- A)
- B)
- C)
- D)

 **Answer:**

---

**Q2. Which of the following is the end tag of an HTML paragraph element?**

- A)
- B)
- C)

 Answer: `</p>`

---

## 5. Button Element

The HTML button element is used to create clickable buttons.

### Example:

```
<button>Get Started</button>
```

### MCQ Practice

**Q1. Which of the following is the start tag of an HTML button element?**


- A) `</button>`
- B) `</p>`
- C) `<button>`
- D) `<h1>`

 Answer: `<button>`

---

**Q2. Which of the following is the end tag of an HTML button element?**

- A) `</button>`
- B) `</p>`
- C) `<button>`
- D) `<h1>`

 Answer: `</button>`

---

## 6. First HTML Code (index.html)

This is the first complete HTML file created in class.

```
<!DOCTYPE html>
<html>
  <head></head>
  <body>
    <h1>Tourism</h1>
    <p>Plan your trip wherever you want to go</p>
    <button>Get Started</button>
  </body>
</html>
```

---

## 7. Interview Questions (Class 1 – HTML Basics)

### Basic Level

1. What is HTML and why is it used?
2. What is the purpose of `<!DOCTYPE html>`?
3. What is the difference between `<head>` and `<body>`?
4. Which tag is used for the main heading in HTML?
5. What does the `<p>` tag represent?

### Medium Level

1. Can an HTML page work without a `<body>` tag? Why?
2. What happens if you forget to close a tag?
3. Difference between `<h1>` and `<h6>`?
4. Is HTML a programming language? Explain.

### Interview Tip Answer (Sample)

"HTML is a markup language used to structure web content. It defines elements like headings, paragraphs, and buttons which are rendered by the browser."


---

## Summary

- HTML defines the structure of a webpage
  - Every HTML document has a basic structure
  - `<h1>` → Main heading
  - `<p>` → Paragraph
  - `<button>` → Button element
- 

 **Next Class:** Introduction to CSS & Styling Basics

---

 Prepared as part of my MERN Stack Journey