

HTML Basics | Assignment

Question 1: Explain the basic structure of an HTML page. Why is it important to follow this structure?

Answer:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <!-- Code here -->
</body>
</html>
```

This is the basics HTML code Structure.

1. **<!DOCTYPE html>** – This is the very first line. It tells the web browser that we are using HTML5, which is the latest version of HTML.
2. **<html>** – This tag wraps all the content on the page and tells the browser that everything inside is HTML code.
3. **<head>** – This is the part where you put things that are not shown on the page directly but are important, like the page title (which shows in the browser tab), instructions for how the page should display on different devices, and links to styles or scripts.
4. **<title>** – Inside the head, this sets the title of the webpage that you see on the browser tab.
5. **<body>** – This is the main part where you put all the content a visitor will see, like text, images, and buttons.

Question 2: You're building a small personal profile page. Which HTML tags will you use to highlight your name as a heading, describe yourself in a paragraph, and emphasize a key skill?

Answer:

- To highlight name as a heading **<h1>** tag is used.
- To describe in a paragraph the **<p>** tag for paragraphs is used.
- To emphasize a key skill, the **** or **** tag to emphasize text (strong usually makes it bold, em italicizes).

```
<h1>Pranav Kumbhare</h1>
<p>I am a Full Stack Web Developer.</p>
<p>My key skill is <strong>Python programming</strong>.</p>
```

Question 3: Look at the code below. Can you find and fix the mistake?

```
<!-- This is an HTML comment
```

```
<h1>Welcome to my website</h1>
```

Answer: In the given syntax the comment tag is not closed hence, this is the correct syntax.

```
<!-- This is an HTML comment -->
<h1>Welcome to my website</h1>
```

Question 4: You're creating a form that asks the user to enter their name, select their country from a list, and click a button to submit. Write the HTML code for this.

Answer:

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>

<body>
  <form>
    <label for="name">Enter your name:</label><br>
    <input type="text" id="name" name="name" required><br><br>

    <label for="country">Select your country:</label><br>
    <select id="country" name="country" required>
      <option value="">Please choose an option</option>
      <option value="india">India</option>
      <option value="brazil">Brazil</option>
      <option value="uk">United Kingdom</option>
      <option value="canada">Canada</option>
      <option value="australia">Australia</option>
    </select><br><br>

    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

Question 5: Write short HTML code to show your favourite fruits in a bulleted list and your top 3 programming languages in a numbered list.

Answer:

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>

<body>
  <h3>My Favourite Fruits</h3>
  <ul>
    <li>Mango</li>
    <li>Apple</li>
    <li>Orange</li>
    <li>Watermelon</li>
    <li>Banana</li>
  </ul>
  <hr>
  <h3>Top 3 Programming Languages</h3>
  <ol>
    <li>Python</li>
    <li>JavaScript</li>
    <li>Java</li>
  </ol>

</body>

</html>
```

Question 6: Ravi wants to leave a note in his HTML file so that only other developers can see it, not the users on the website. How should he do this? Why are such notes useful?

Answer:

```
<!-- This is a comment that only developers see -->
```

Comments are useful to leave a note for developer and only developer can see it.

It helps developers leave explanations or reminders about the code.

It is easier for others to understand and maintain the code.

They can temporarily "hide" parts of the code without deleting it when testing or fixing bugs.

Question 7: Here's a form snippet. Can you spot the error and rewrite the correct version?

```
<form>
<input name="email">
<select>
<option>India</option>
</select>
<button>Send</buton>
</form>
```

Answer:

The <input> tag for email is missing the type attribute (type="email" is ideal for email inputs).

The <button> tag is misspelled as <buton> instead of <button>.

```
<form>
  <input type="email" name="email">
  <select>
    <option>India</option>
  </select>
  <button>Send</button>
</form>
```