

Assignment Code: FSD-AG-001

HTML Basics | Assignment

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

Answer:-

The Basic structure of an HTML Page is:

```
<html>
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>my web page</title>
</head>
<body>
  <!--Enter your Code Here-->
</body>
</html>
```

Explanation of Each Part

- ❖ **<!DOCTYPE html>**: Declares the document type and HTML version. It ensures consistent rendering across browsers by telling them to use standard mode.
- ❖ **<html>**: This is the root element. Everything on the page must be inside this tag.
- ❖ **<head>**: Contains metadata — information *about* the webpage, not visible content. Includes:
 - **meta** tags for encoding and responsiveness.
 - **<title>** tag which sets the text on the browser tab.
 - Links to stylesheets, fonts, or scripts can also go here.
- ❖ **<body>**: Holds everything that users see — text, images, buttons, etc.

Why is it important to follow this structure?

1. **Browser Compatibility**: Browsers rely on this structure to correctly interpret and display content.
2. **Readability**: Consistent layout helps other developers (and your future self) easily understand and maintain the code.
3. **Performance & SEO**: Proper use of elements in **<head>** helps with page speed, accessibility, and how well your page ranks on search engines.
4. **Scalability**: A clean structure is easier to expand—think of it like building on a solid foundation.

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:-

Here is the answer :

Code:-

```
<H1>Sumit Gupta</H1>
<p>Hi, I am a Full Stack Web Developer ,I'm a curious learner who loves tinkering with
Python, Arduino, and all things embedded systems!</p>
<p> One of my key strengths is <em> Python programming. </em>.</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:-

Correct Code is:

```
<!-- 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.

Anser:-

Code:

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

  <!-- Name Input -->
  <label for="name">Your Name:</label>
  <input type="text" id="name" name="name" required>
  <br><br>

  <!-- Country Selection -->
  <label for="country"> Select your country: </label>
  <select id="country" name="country" required>
    <option value="">--Choose a country--</option>
    <option value="india"> India </option>
    <option value="usa"> USA </option>
    <option value="japan"> Japan </option>
```

```
<option value="germany"> Germany </option>
</select>
<br><br>
```

```
<!-- Submit Button -->
<button type="submit">Submit</button>
</form>
```

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

Answer:-

Code:

```
<h2> My Favorite Fruits</h2>
<ul>
  <li>Mango</li>
  <li>Banana</li>
  <li>Strawberry</li>
</ul>

<h2> My Top 3 Programming Languages</h2>
<ol>
  <li>HTML</li>
  <li>C++</li>
  <li>JavaScript</li>
</ol>
```

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:-

Code:

```
<!-- This is a comment. It won't show up on the actual webpage -->
```

Why are such notes useful?

- **Clarity for other developers:** Comments explain *why* certain code exists, making collaboration and debugging much easier.

- **Quick reminders:** You can leave TODOs, version notes, or shortcuts directly in the file.
- **Temporarily disable code:** You can “turn off” a piece of HTML without deleting it by commenting it out.

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:-

Here is a correct version of that code-
Code:

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