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ASSIGNMENT 1

Introduction to HTML

HTML or HyperText Markup Language, serves as the backbone of web development, enabling the creation of structured & visually appealing web pages.

1. HTML Document Structure

- `<!DOCTYPE html>`: Declaration specifying the HTML version
- `<html>`: Encloses entire HTML document

2. Basic Tags:

- `<head>`: Contains metadata like title & links to external resources.
- `<title>`: Sets the title of document
- `<body>`: Contains visible content of document

e.g.

```
<head>  
  <title> Hi </title>  
</head>  
<body>  
  </body>
```

3. Text Formatting

- `<h1>` to `<h6>`: Defines headings of different levels.
- `<p>`: Represents a paragraph.

• `
` : Inserts a line break

e.g. `<h1> Main </h1>`
`<p> Paragraph </p>`

4) Text Styling:

• `` : Emphasizes text

• `` : Indicates strong importance

• `<u>`, ``, `<i>` : Underlines, bolds & italicizes text

e.g.

`<p> Emphasized & Strong text </p>`

5) Lists:

• `` : Defines an unordered list

• `` : Defines an ordered list

• `` : Represents a list item

e.g.

```
<ul>
  <li> Item 1 </li>
  <li> Item 2 </li>
</ul>
```


6) Links & images

- `<a>` : Creates hyperlinks
- `` : Embeds images

e.g.

```
<a href="https://abc.com">Link</a>
```

```

```

7) Tables

`<table>`, `<tr>`, `<td>`, `<th>`:

Create tables, rows, cells & headers respectively

e.g. `<table>`

```
<tr>
```

```
<th> Header1 </th>
```

```
<th> Header2 </th>
```

```
</tr>
```

```
<tr>
```

```
<td> Data1 </td>
```

```
<td> Data2 </td>
```

```
</tr>
```

```
</table>
```

8) Forms

`<form>`, `<input>`, `<label>`, `<button>`

`<label for="username">`

Enable form creation with input fields, labels & button.

e.g.

<form>

<label for="username">Username: </label>

<input type="text" id="username" name="username">

<button type="submit">Submit </button>

</form>

9) Semantic tags - Contribute semantic meanings to document sections

- <header>

- <footer>

- <nav>

- <article>

- <section>

- <aside>

- <main>

e.g. <header>

<!-- Content -->

</header>

10) Comments:

- <!-- Comment --> : allows developers to add comments within HTML code.

e.g.

<!-- This is a comment -->