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Designing a Web Page using HTML:

HTML stands for hyper text markup language and is used to make the structure and layout of different web pages using elements and tags hence html can be called as backbone of a websites.

HTML Boilerplate:

Every html document starts with a standard and basic structure known as boilerplate. Boilerplate begins with the html tags and tells the browser that this is html page.

Basic boilerplate :

```
<!DOCTYPE html>

<html>

  <head>

    <title>This is the title</title>

  </head>

  <body>
```

Here is the body means all the content of webpage

`</body>`

`</html>`

Explanation:

`<!DOCTYPE html>`: It refers to the document type which is html.

`<html>`: Every html code starts from this . It is root element of entire page.

`<title>`: It displays the name of the website page on the browser tab.

`<body>`: It contains all the content including text, images, links and more.

Text Format:

Heading: Heading are from `<h1>` to `<h6>` . `<h1>` is the largest and `<h6>` is the smallest heading. It is used to define different sections.

Paragraph: `<p>` tag is used for paragraphs. It is used for blocks of text.

`<h1>`Main Heading and largest heading`</h1>`

`<h2>`Subheading`</h2>`

`<h3>` Subheading`</h3>`

`<h4>`Subheading`</h4>`

`<h5>`Subheading`</h5>`

`<h6>`Subheading and shortest heading`</h6>`

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

Styling Tags Text :

- `` for **bold**
- `<i>` for *italic*
- `<u>` for underlined text
- `
` for line breaks
- `<hr>` for horizontal line

Creating Links:

We use links to navigate between pages or direct go to some other sites>

<a> tag is used for links in html

Example:

```
<a href="https://www.google.com">Visit Google</a>
```

- href gives reference of a url.
- Text between <a> and is a link through which we direct to other web page.

Insert Images:

Images are added using the tag . it doesnot requires any closing tag as it is self closing.

Example:

```

```

- src: It is the source of an image.
- alt: If image is not loading it is any alternating text like there is an image.
- width or height: used to resize the image.

Lists in HTML:

There are two types of lists one is ordered and other is unordered list.

Ordered List ()

html

```
<ol>
```

```
<li>Apple</li>
```

```
<li>Spinach</li>
```

```
</ol>
```

Unordered List ()

html

```
<ul>
```

```
<li>fruits</li>
<li>Vegetables</li>
</ul>
```

- is used to display all the list items.

Grouping Elements

<div> Tag:

Multiple Elements like paragraphs and headings etc are used as one block using this tag. It just makes a layout and by applying CSS later can enhance it.

Example:

```
html
<div>
  <h1>Home</h1>
  <p>This is home page.</p>
</div>
```

 Tag:

Used to style or manipulate inline portions of text.

Example:

```
html
<p>I love <span style="color:green;">Pakistan Army</span>.</p>
```

Practical Web Page Example:

```
<!DOCTYPE html>

<html>

<head>

  <title>My Simple Blog</title>

</head>
```

<body>

<h1>Welcome to My Blog!</h1>

<p>Hello! I'm learning HTML and this is my first blog page.</p>

<h2>Featured Post</h2>

<h3>Why I Love Coding</h3>

<p>Coding helps me bring ideas to life. It's creative, logical, and super fun!</p>

<h2>Other Interests</h2>

Photography

Painting

Sketching

<h2>Contact Me</h2>

<p>Email: example@email.com</p>


```
<hr>
```

```
<p> 2025 My Simple Blog</p>
```

```
</body>
```

```
</html>
```

Learning Outcome:

After building the sample webpage using these tags and concepts, I have:

- Understood the structure and purpose of each HTML element.
- Gained hands-on experience in coding with correct syntax.
- Learned how to organize content using proper tags.
- Realized the importance of clean, readable, and semantic code.

