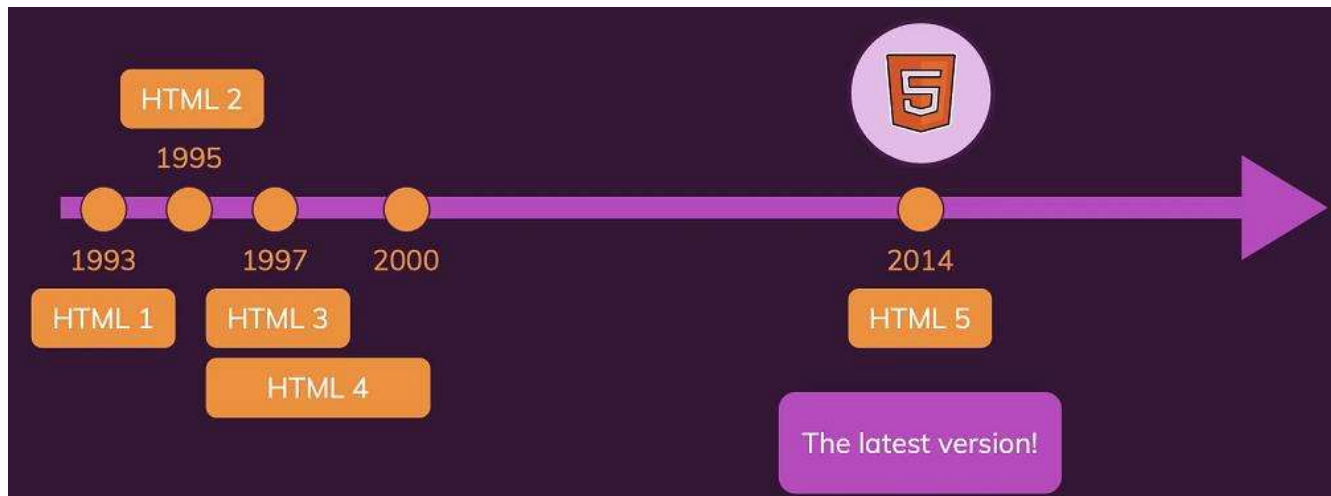# HTML 5 - Training

What is HTML?

- HTML (HyperText Markup Language) is the most basic building block of the Web.

- HTML describes the structure of a Web page.

- HTML consists of a series of elements.

- HTML elements tell the browser how to display the content.

- HTML elements are represented by tags.

- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on.

- Browsers do not display the HTML tags, but use them to render the content of the page

What is Hypertext & Markup?

- Hypertext is a text which references to other text.

- Hypertext means machine readable text and Markup means to structure it in a specific format.

- So, HTML is called hypertext markup language because it is a language that allows users to organize, improve the appearance of, and link text with data on the internet.

History of HTML

Structure of HTML

```
<!DOCTYPE html>  ◄————————  Tells the document type

<html>  ◄————  The Root Element

        <head>  ◄————  Contains the header information

                <title>Title of the Page</title>◄————  Defines Title of
                                                        the Page
        </head>

        <body>◄————  Holds the Content of the Page

        Tags related to layout and formatting

        </body>

</html>
```

<!Doctype html> Declaration

```
<!DOCTYPE html>
```

The <!DOCTYPE> declaration represents the document type, and helps browsers to display web pages correctly.

It must only appear once, at the top of the page before any HTML tags

The <!DOCTYPE> declaration is not case sensitive.

HTML – Head Tag Containers

The Head Element

- Title tag

- Style tag

- Link tag

- Script tag

- Meta tag

Structure of HTML continue..

The Head Element

- The <head> element is a container for metadata and is placed between the <html> tag and the <body> tag.

- HTML metadata is data about the HTML document.

- Metadata typically define the document title, character set, styles, scripts, and other meta information.

The <title> Element

- The <title> element defines the title of the document.

- Defines a title in the browser toolbar

- Provides a title for the page when it is added to favorites

- Displays a title for the page in search engine-results

HTML Body Tags

➢ Heading Tags - <h1>, <h2>, <h3>, <h4>, <h5>, <h6> tags.

➢ Paragraph Tag - <p> tag.

➢ Horizontal ruler - <hr> tag.

➢ Anchor(Link) Tag - <a> (anchor) tag.

➢ List Tag - (unordered list), <ol> (ordered list) and <li> (list element) tags.

➢ Image Tag - <img> tag

➢ Divider, denoted using the <div> tag

➢ Text span, denoted using the <span> tag

HTML Elements

HTML Headings

HTML headings are defined with the <h1> to <h6> tags.

<h1> defines the most important heading. <h6> defines the least important heading.

```
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
<h3>This is heading 3</h3>
```

HTML Paragraphs

```
<p>This is a paragraph.</p>
<p>This is another paragraph.</p>
```

QUESTION

Use the correct HTML tag to add a heading with the text "London".

```

```

<p>London is the capital city of England. It is the most populous city in the United Kingdom, with a metropolitan area of over 13 million inhabitants.</p>

QUESTION

Start with the most important heading (the largest) and end with the least important heading (the smallest).

```
<html>
<head>
</head>
<body>

</body>
</html
```

QUESTION

Mark up the text with appropriate tags:

"Universal Studios Presents" is the most important heading.

"Jurassic Park" is the next most important heading.

"About" is the third most important heading.

The last sentence is just a paragraph.

Start with the most important heading (the largest) and end with the least important heading (the smallest).
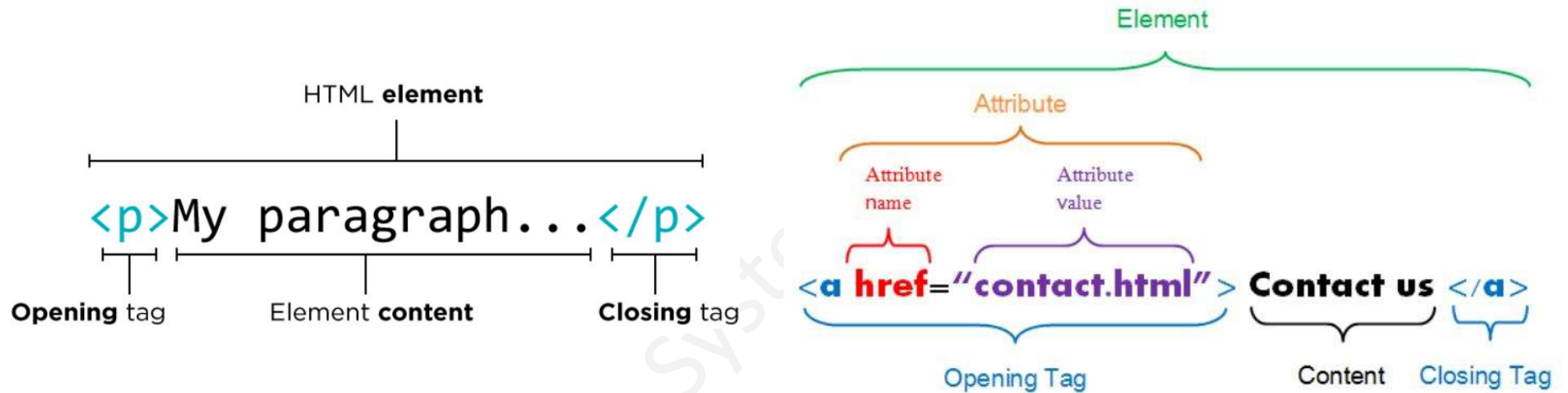
QUESTION

Clean up this document with proper end tags.

`<h1>`This is a Heading

`<p>`This is a paragraph. ■

HTML Element, Tag & Attribute

QUESTION

welcome to programming

welcome to programming

Thank you

Main Categories of Elements and Attributes

The main categories of elements are mentioned below:

- Block level elements :

   <div>, <p>, <h1> to <h6>, <form>, <table> etc.,

- Inline elements :

    <img>, <a>, , <input> etc.,

<u>Attributes:</u>

- Attributes are something which give the additional information of the element.

   Ex. name, width, height, alt, title, href, id, class, etc.,

HTML Block and Inline Elements

Every HTML element has a default display value, depending on what type of element it is.

- There are two display values: block and inline.

Block-level Elements:

- A block-level element always begins a new line on a web page.

- It extends the full width of the available horizontal space of its parent element.

- A block level element has a top and a bottom margin, whereas an inline element does not.

- Eg: <div></div>

HTML Block and Inline Elements continue..

Inline Elements

- An inline element does not start on a new line.
- An inline element only takes up as much width as necessary.
- Eg:

Note: An inline element cannot contain a block-level element!

HTML Elements continue..

HTML <div> Tag

- The <div> tag defines a division or a section in an HTML document.

- The <div> element is often used as a container for other HTML elements

```
<div style="background-color:lightblue">
  <h3>This is a heading</h3>
  <p>This is a paragraph.</p>
</div>
```

HTML <span> Tag

- The <span> tag is used to group inline-elements in a document.
- The <span> tag provides no visual change by itself.
- The <span> tag provides a way to add a hook to a part of a text or a part of a document

```
<p>My mother has <span style="color:blue">blue</span> eyes.</p>
```

QUESTION

Home   service   contact   help

QUESTION

Home

service

contact

help

formatting TAGS

- `<B>Bold</B><BR>`
- `<I>Italic</I><BR>`
- `<U>Underlined</U><BR>`
- Subscripts: `f<SUB>0</SUB>` + `f<SUB>1</SUB><BR>`
- Superscripts: `x<SUP>2</SUP>` + `y<SUP>2</SUP><BR>`
- `<SMALL>Smaller</SMALL><BR>`
- `<BIG>Bigger</BIG><BR>`
- `<EM>Emphasized Text</EM><BR>`
- `<TT>Teletype (Monospaced)</TT><BR>`
- `<CODE>Computer Code Text</CODE><BR>`
- `<STRIKE>Strike Through</STRIKE><BR>`
- `<B><I>Bold Italic</I></B><BR>`
- `<p>My favorite color is <del>blue</del> <ins>red</ins>!</p>`
- `abcdef<DEL>Delete</DEL>fhkfjdkhfdhgf<BR>`

QUESTION

$$(a+b)^2 = a^2 + b^2 + 2ab$$

$$(a-b)^2 = a^2 + b^2 - 2ab$$

$\log_e 10$ or In (10)

Add extra importance to the word "degradation" in the paragraph below.

```
<p>
WWF's mission is to stop the [        ]degradation[        ] of our planet's natural
environment.
</p>
```

Emphasize the word "metropolitan" in the text below.

```
<h1>Tokyo</h1>

<p>
Tokyo is the capital of Japan, the most populous [    ]metropolitan[    ] area in the
world.
</p>
```

Add a line through (strikeout) the letters "blue" in the text below.

```
<p>
My favorite color is [    ]blue[    ] red.
</p>
```

Special Characters Entities

Result	Description	Entity Name	Entity Number
	non-breaking space		
<	less than	<	<
>	greater than	>	>
&	ampersand	&	&
¢	cent	¢	¢
£	pound	£	£
¥	yen	¥	¥
€	euro	€	€
§	section	§	§
©	copyright	©	©
®	registered trademark	®	®
™	trademark	™	™

₹

QUESTION

$2 < 5$: 2 is less than 5

$0.8 < 1.2$: 0.8 is less than 1.2

$-0.6 < -0.1$: -0.6 is less than -0.1

Empty HTML Elements

HTML elements with no content are called empty elements.

Line Break Tag

-
 is an empty element without a closing tag (the <br> tag defines a line break).

```
<p>This is a <br /> paragraph with a line break.</p>
```

Horizontal Lines

- Horizontal lines are used to visually break-up sections of a document.

```
<p>This is paragraph one and should be on top</p>
<hr />
<p>This is paragraph two and should be at bottom</p>
```

ASSIGNMENT

USING THE INTERNET CONNECTION WIZARD

Connecting to the internet is quick and easy using the Internet Connection Wizard. The Internet Connection Wizard helps you sign up an account.

To start the wizard for the first time, double-click The Internet icon on your desktop. If you need to start an wizard again at a later time. click the Start menu, point to Programs, point to Accessories, *point to Internet Tools*, and then click Get On The Internet

The wizard connects you to the Microsoft Internet Referral Service. This service provides you with a list of the service providers available in your area. To determine which service providers are available, the wizard sends the following information to the Internet Referral Service:

Field	Description
Country Id	The country from which you are dialling
Area/City Code	Your area or city code

HTML ATTRIBUTE Q&A

Add a "tooltip" to the paragraph below with the text "About NewSchool".
<p>NewSchool is best school</p>

Add unique id to the below paragraph
<p>NewSchool is best school</p>

Add class atribute to the below paragraph
<p>NewSchool is best school</p>

can we add src attribute to the below paragraph?
<p>NewSchool is best school</p>

can we add href attribute to the below paragraph?
<p>NewSchool is best school</p>

QUESTION?

List any three block elements?

List any three inline elements?

IS meta tag will help for SEO?

For break tag is closing
mandatory?

can we add< and > symbol directly inside the html?