Introduction to HTML

Overview

- HTML stands for **Hyper Text Markup Language.**
- HTML describes the structure of web pages using markup.
- HTML is used to provide the content(words, images, audio, video, and so on) to the web pages.
- HTML is a tag-based language. They are defined within the angle brackets(< >)
- HTML files can be created using a text editor.

HTML document is a text document saved with the extension **.html or .htm** that contains texts and some tags written between "< >" which give the instructions needed to configure the web page.

Sample HTML document

```
<!DOCTYPE html>
<html>
<head>
   <title> Coding Ninjas </title>
</head>
<body>


   <h1>Welcome to Coding Ninjas ! </h1>
   <p> Let's Start Learning </p>


</body>
</html>
```

Remember to save the above file with the **.html** extension.
The above code is called the **source code** of a website
All the keywords written between the **angular brackets(< >)** are different,tags used for different purposes.

- **<!DOCTYPE html>** tells the browser that the file being displayed is HTML5 page.
- **<html>** meant to contain all the HTML data and is the start of an HTML document.
- **<head>** provides information about the document. It is not displayed in the browser window.
- **<title>** provides a title for the document.
- **<body>** contains everything visible on the web page, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- **<h1>** element defines a large heading
- **<p>** element defines a paragraph

HTML ELEMENTS

Elements are the things that make up the web page. Tags just define the beginning and end of the elements. Everything that a web page includes is an HTML element.

<tagname> Content... </tagname>

➢ The HTML element starts with a opening tag: **<tagname>**
➢ The content of the HTML element is: **Content...**
➢ The HTML element ends with an closing tag: **</tagname>**

Example : <p> Hello World ! </p>
            <h1> Hello World ! </h1>

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br Tag

**
** tag is used to introduce a **single line break** between the contents. This means that when this tag is used in between a single line, the content after this tag will move to the next line.

Example :   <h3>We are studying in**
**Coding Ninjas</h3>
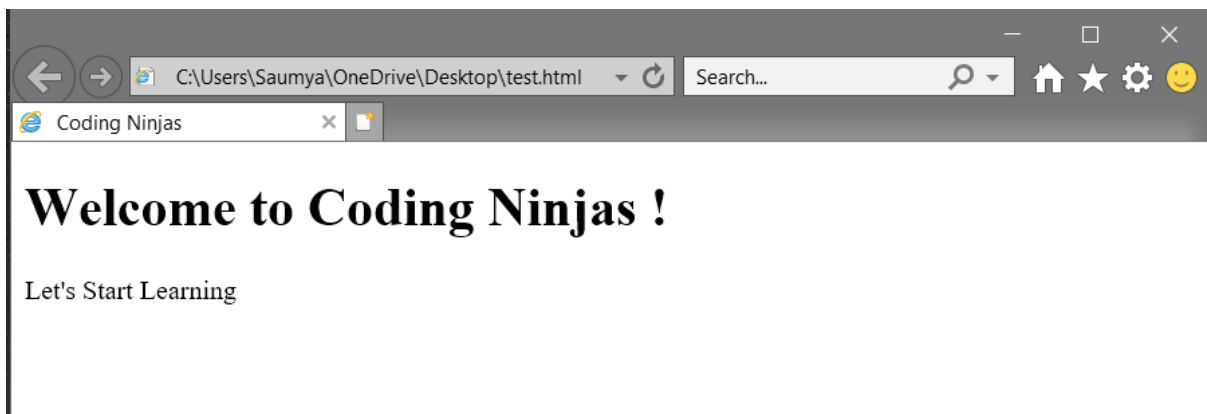
**We are studying in
Coding Ninjas**

Note : Some HTML elements have no content (like the <br> element). These elements are called empty elements. Empty elements do not have an end tag!

HTML document in Browser

The purpose of a web browser (Chrome, Edge, Firefox, Safari) is to read HTML documents and display them correctly.

Open the file saved with the **.html extension,** and automatically it will open in the browser and all the content written inside the <body> tag will be displayed in the browser.

A browser does not display the HTML tags but uses them to determine how to display the document:

View source code

By right-clicking on the web page and selecting the **view page source** option you can view the HTML code of that web page.