

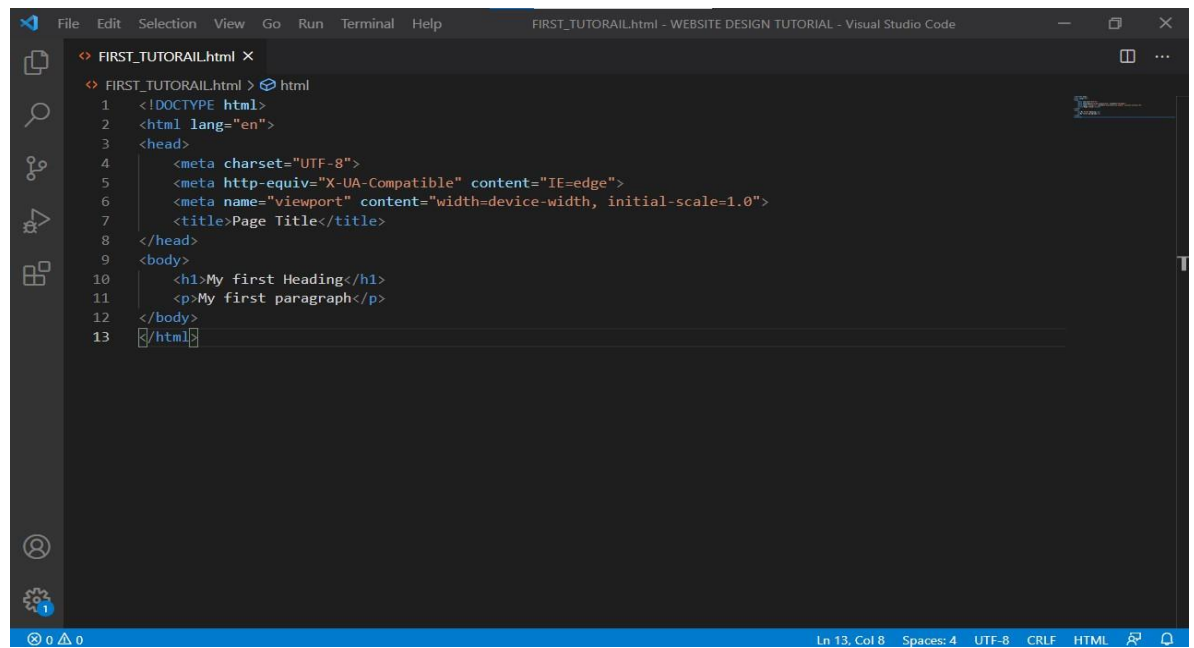
HTML INTRODUCTION

HTML is the standard markup language for creating web pages.

WHAT IS HTML?

- HTML stands for Hyper Text Markup Language
- HTML is the standard markup language for creating web pages
- 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 label pieces of content such as “this is a heading”, “this is a paragraph”, “this is a link”, etc.

A detailed structure of an HTML

A screenshot of the Visual Studio Code editor interface. The title bar at the top reads "FIRST_TUTORAIL.html - WEBSITE DESIGN TUTORIAL - Visual Studio Code". The editor window shows a file named "FIRST_TUTORAIL.html" with the following HTML code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Page Title</title>
</head>
<body>
  <h1>My first Heading</h1>
  <p>My first paragraph</p>
</body>
</html>
```

The code is syntax-highlighted. The left sidebar shows the Explorer, Search, and Run and Debug views. The bottom status bar indicates "Ln 13, Col 8", "Spaces: 4", "UTF-8", "CRLF", and "HTML".

Structure of the HTML explained below

- The `<!DOCTYPE HTML>` declaration defines that this document is an HTML 5 document
- The `<!html>` element is the root element of an HTML page
- The `<head>` element contains meta information about the HTML page
- The `<title>` element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)
- The `<body>` element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The `<h1>` element defines a large heading
- The `<p>` element defines a paragraph

WHAT IS AN HTML ELEMENT ?

An HTML element is defined by a start tag, some content, and an end tag:

`<tagname> Content goes here....</tagname>`

The HTML element is everything from the start tag to the end tag:

`<h1> My First Heading </h1>`

`<p> My first paragraph. </p>`

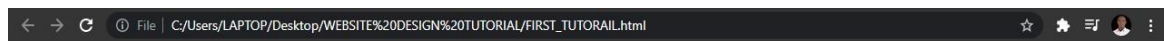
START TAG	ELEMENT CONTENT	END TAG
<code><h1></code>	My first Heading	<code></h1></code>
<code><p></code>	My first paragraph	<code></p></code>
<code>
</code>	none	none

Some HTML elements have no content (like the `
` element). These elements are called **empty elements**. Empty elements do not have an end tag.

WEB BROWSERS

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

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



My first Heading

My first paragraph

HTML PAGE STRUCTURE

Below is a visualization of an HTML page structure:

