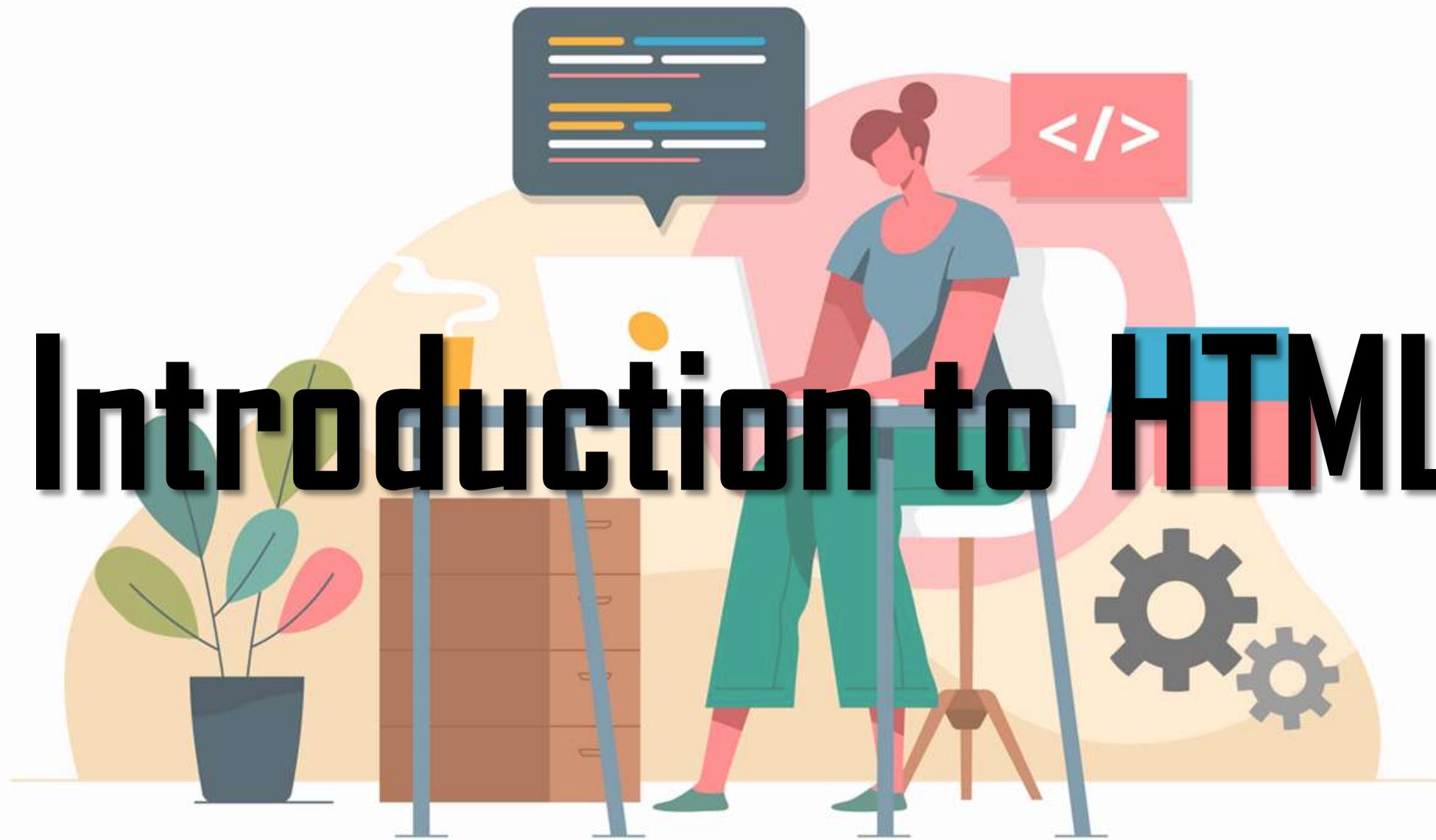
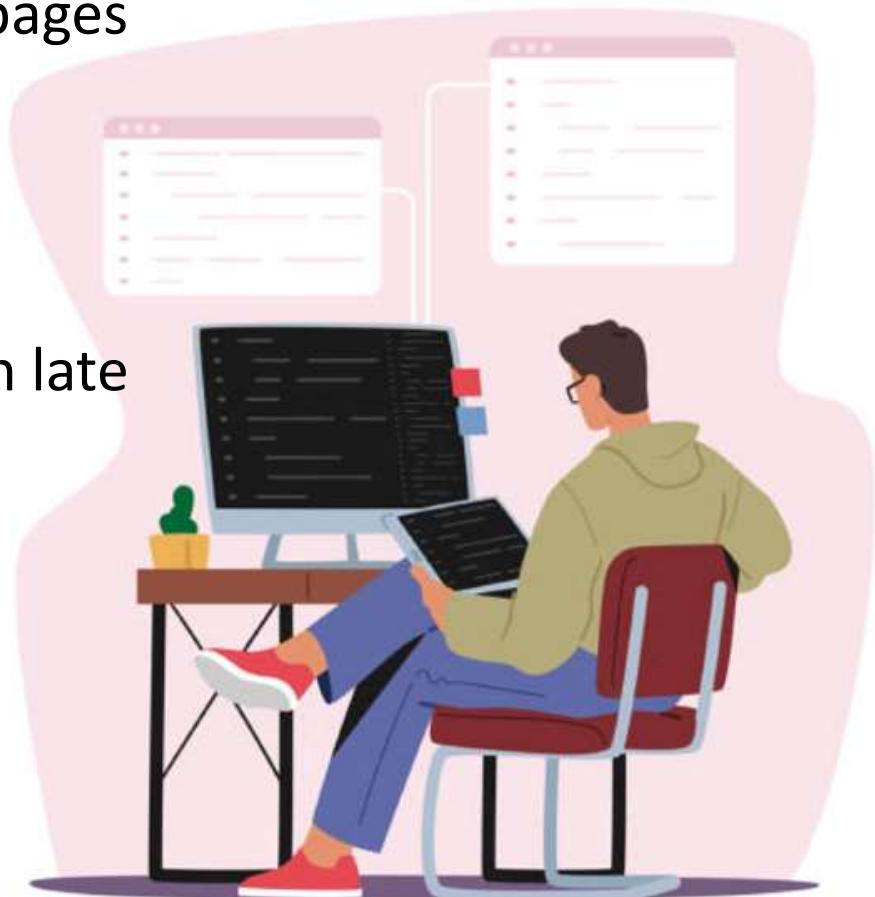


Introduction to HTML



What is HTML ?

- Hyper Text Markup Language
- Most widely used language on Web to develop webpages
- HTML was created by Berners-Lee in late 1991
- HTML 2.0 was the first standard HTML specification published in 1995.
- HTML 4.01 was a major version of HTML published in late 1999.
- Currently we are having HTML-5 version which is an extension to HTML 4.01, published in 2012



Hyper Text Markup Language

Hyper text refers to the way in which Web pages (HTML documents) are linked together. Thus, the link available on a webpage is called Hypertext.



- Hypertext is text which contains links to other texts
- HTML is a Markup Language which means you use HTML to simply "mark-up" a text document with tags that tell a Web browser how to structure it to display

HTML Tags

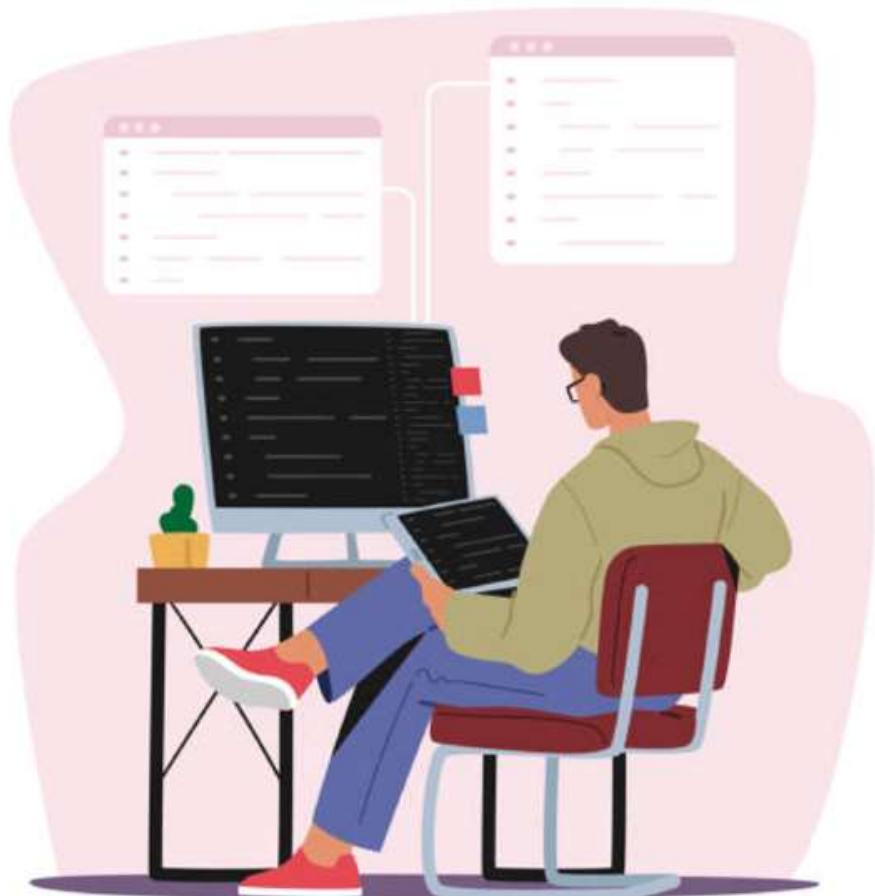
- HTML tags are enclosed within angle braces. <TagName>
- Most of the tags have their corresponding closing tags. <TagStart></TagEnd>
- Example:
 - <html>/html>
 - <body></body>

```
<!DOCTYPE html>
<html>

    <head>
        <title>Page Title</title>
    </head>

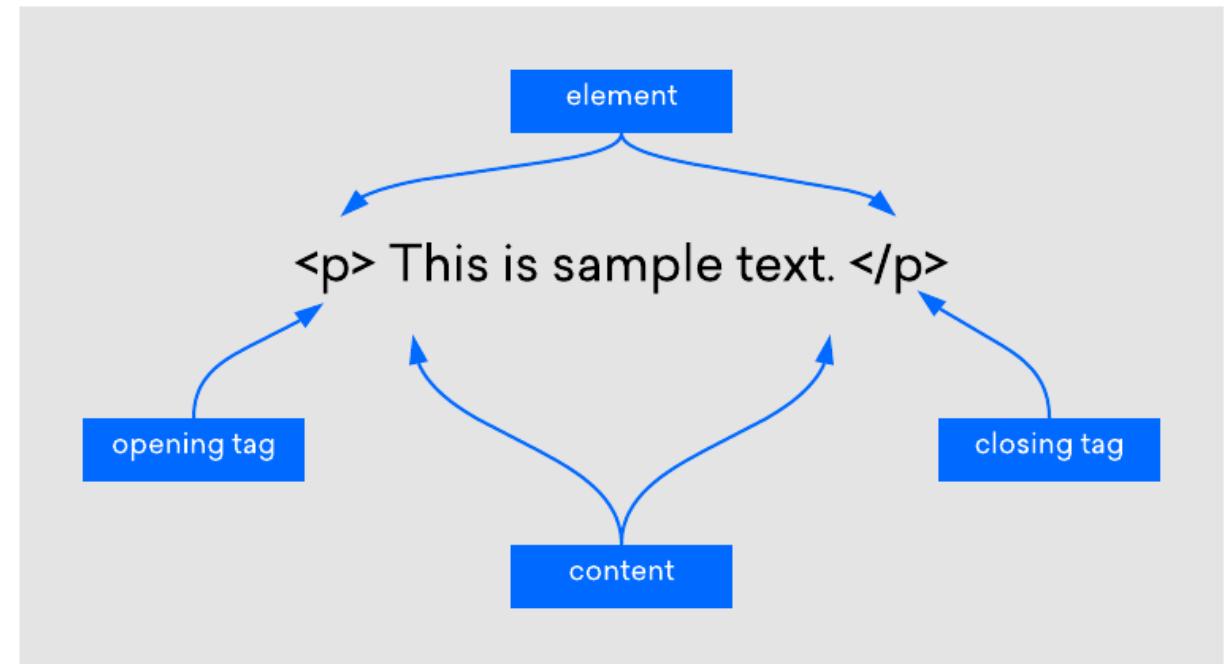
    <body>
        <h2>Heading Content</h2>
        <p>Paragraph Content</p>
    </body>

</html>
```



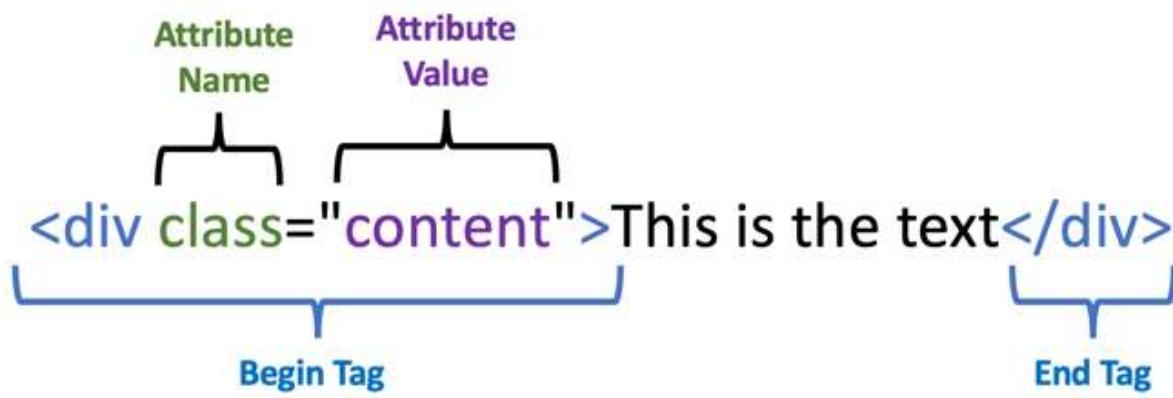
HTML Element

- An element in HTML represents some kind of structure or semantics and generally consists of a start tag, content, and an end tag



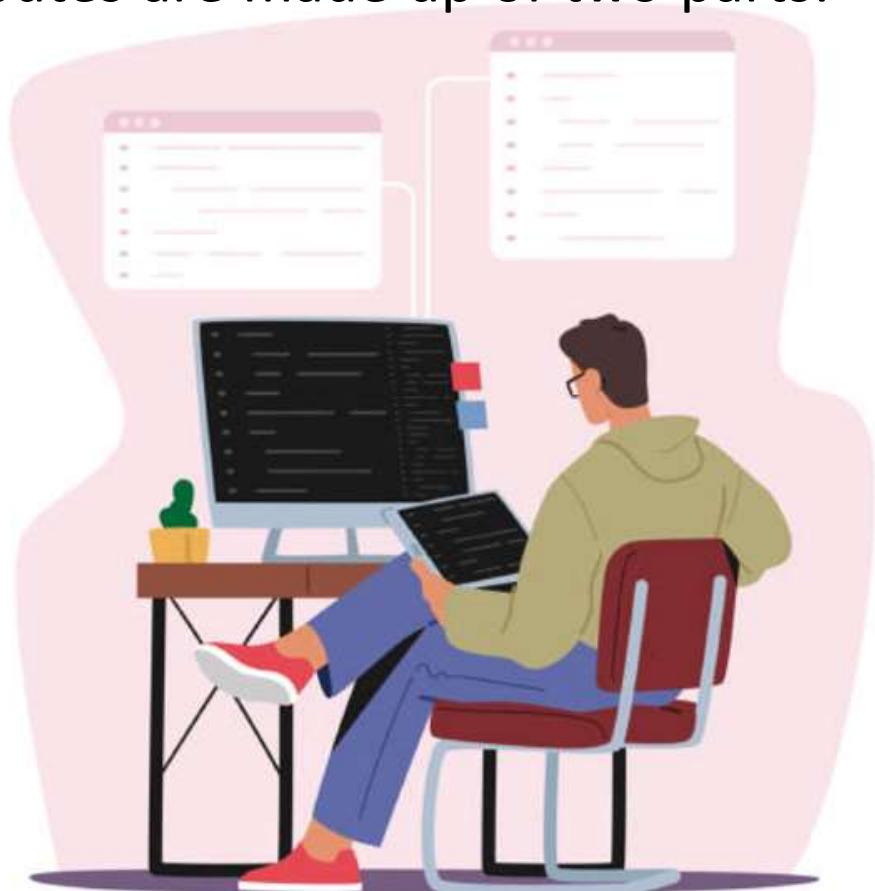
HTML ATTRIBUTES

- An attribute is used to define the characteristics of an HTML element and is placed inside the element's opening tag. All attributes are made up of two parts: a name and a value



Example:

```
<p align="right"> content </p>
```



HTML ATTRIBUTES

The below example shows three possible values of align attribute: left, center and right

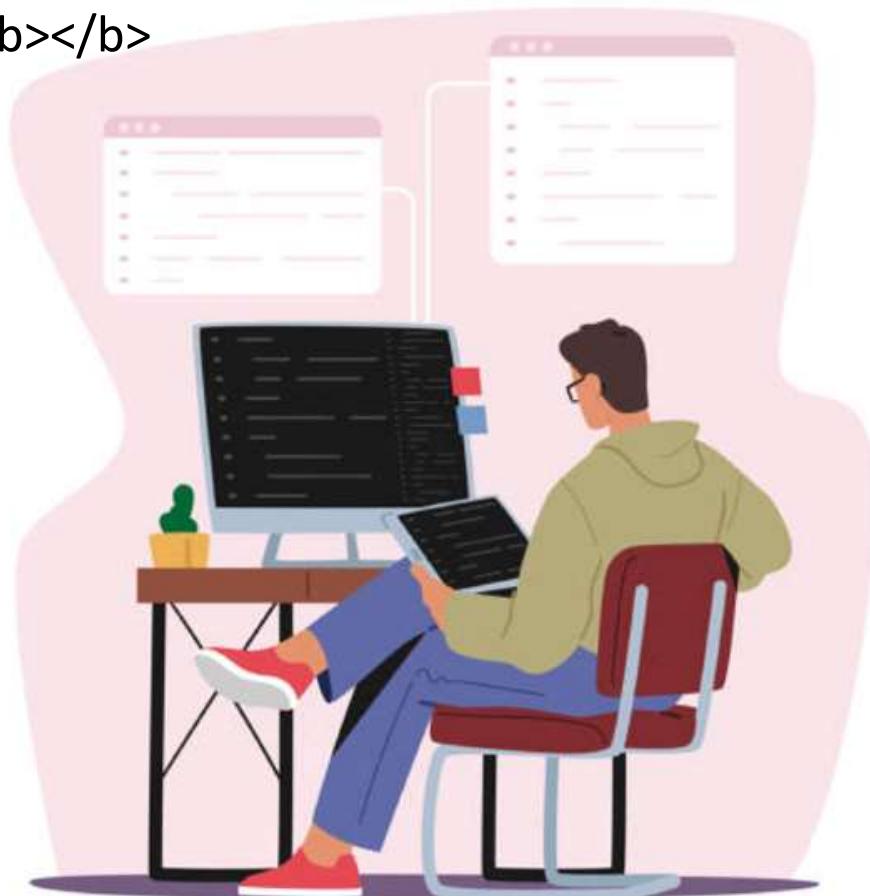


```
<!DOCTYPE html>
<html>
<head>
<title>Align Attribute Example</title>
</head>
<body>
<p align="left">This is left aligned</p>
<p align="center">This is center aligned</p>
<p align="right">This is right aligned</p>
</body>
</html>
```

HTML Formatting

HTML Tag	Output
normal text	hello world
Font & its attributes	hello world
	Bold
<I>	<i>Italic</i>
<U>	<u>Underline</u>
	<i>Emphasis</i>
	STRONG
<TELETYPE>	TELETYPE
<CITE>	<i>Citation</i>
<STRIKE>	strike-through text
<BIG>	text in a big font
<SMALL>	text in a small font
<SUB>	a _b
<SUP>	a ^b

Side note: all the tags will have a starting tag as well as an ending tag
Like;



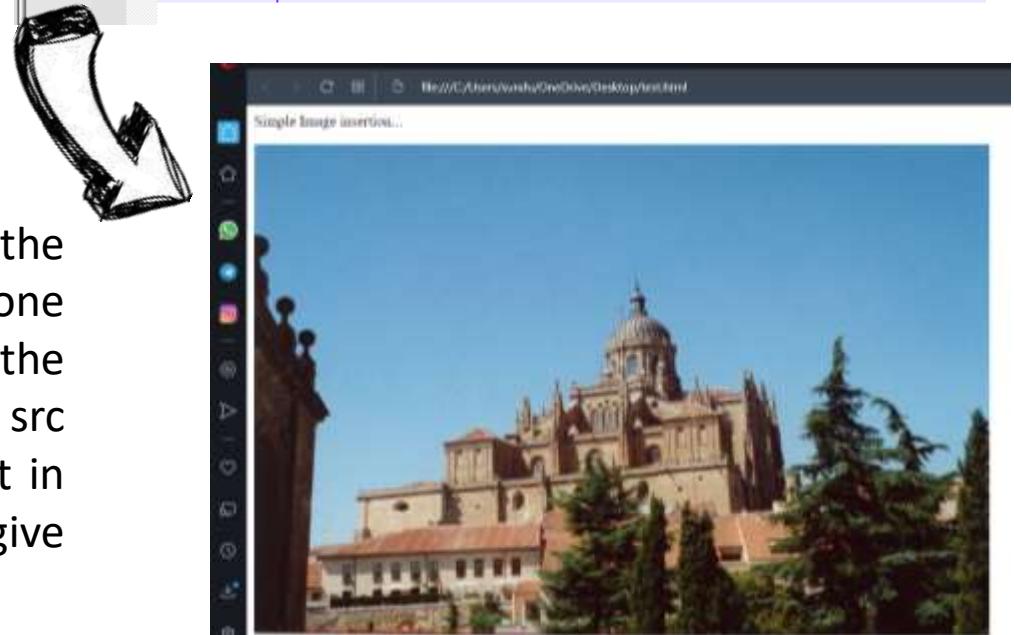
HTML Images

- Use 'img' tag
- 'src' means source of image
- 'alt' gives alternate text if the image doesn't load successfully.



Side note: If the image is in the same folder as the .html file, one can just write the name of the image as the value of the src attribute, but if the image is not in the same file, one will have to give the entire path for the image

```
test.html x
1 <html>
2   <head>
3     <title> IICT TEST </title>
4   </head>
5 
6   <body>
7     <p> Simple Image insertion... </p>
8     <img src = "5.jpg" alt = "test image" />
9 
10 </body>
11 </html>
```



HTML Tables

- Use of table tag
- <tr> for rows
- <th> for column heading
- <td> for column

```
<table>                                // Table Tag
  <tr>                                 // Row 1
    <th></th>                         // Header 1
    <th></th>                         // Header 2
  </tr>
  <tr>                                 // Row 2
    <td></td>                         // Column 1
    <td></td>                         // Column 2
  </tr>
</table>
```

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

test.html

```
1  <html>
2   <head>
3     <title> IICT TEST </title>
4   </head>
5
6   <body>
7     <table style="border: 1px solid black">
8       <tr>
9         <th style="border: 1px solid black"> Name </th>
10        <th style="border: 1px solid black"> Roll Number </th>
11      </tr>
12      <tr>
13        <td style="border: 1px solid black"> Hassan </td>
14        <td style="border: 1px solid black"> 22i0001 </td>
15      </tr>
16      <tr>
17        <td style="border: 1px solid black"> Rafay </td>
18        <td style="border: 1px solid black"> 22i0002 </td>
19      </tr>
20      <tr>
21        <td style="border: 1px solid black"> Manahil </td>
22        <td style="border: 1px solid black"> 22i0003 </td>
23      </tr>
24
25    </table>
26  </body>
```



HTML Tables (Rowspan)



```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
}
</style>
</head>
<body>

<table>
  <tr>
    <th>Month</th> •
    <th>Savings</th>
    <th>Savings for holiday!</th>
  </tr>
  <tr>
    <td>January</td>
    <td>$100</td>
    <td rowspan="2">$50</td>
  </tr>
  <tr>
    <td>February</td>
    <td>$80</td>
  </tr>
</table>

</body>
</html>
```

Month	Savings	Savings for holiday!
January	\$100	
February	\$80	\$50



HTML Tables (Colspan)

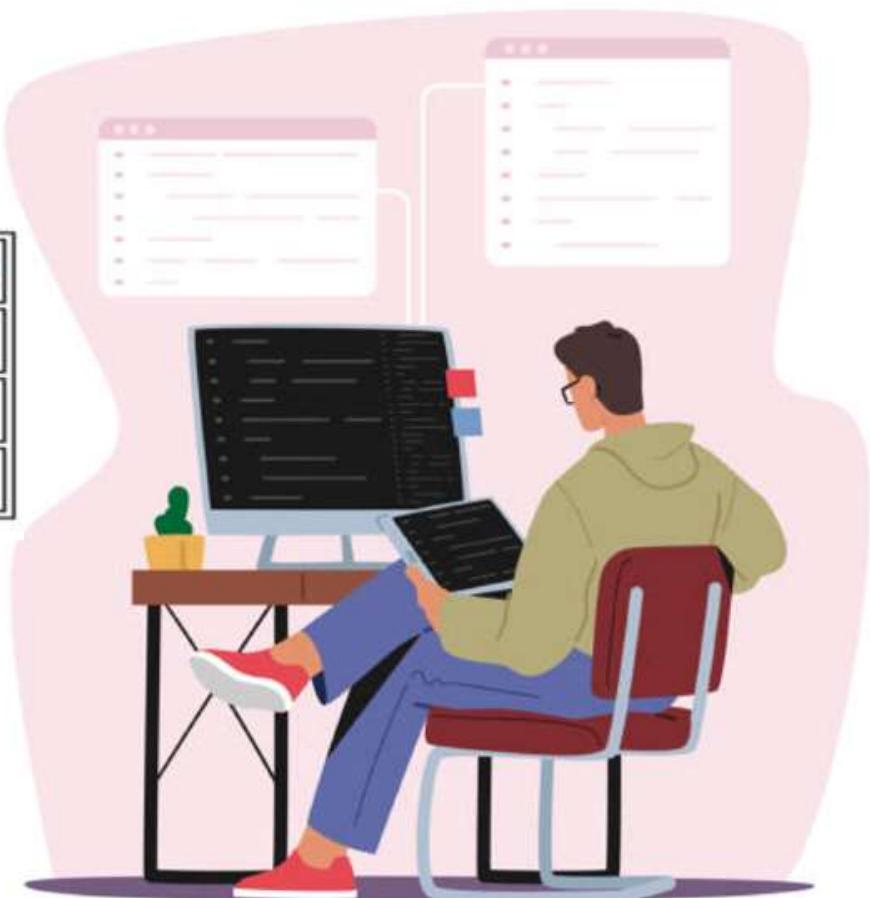
```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
}
</style>
</head>
<body>

<table>
  <tr>
    <th>Month</th>
    <th>Savings</th>
  </tr>
  <tr>
    <td>January</td>
    <td>$100</td>
  </tr>
  <tr>
    <td>February</td>
    <td>$80</td>
  </tr>
  <tr>
    <td colspan="2">Sum: $180</td>
  </tr>
</table>

</body>
</html>
```

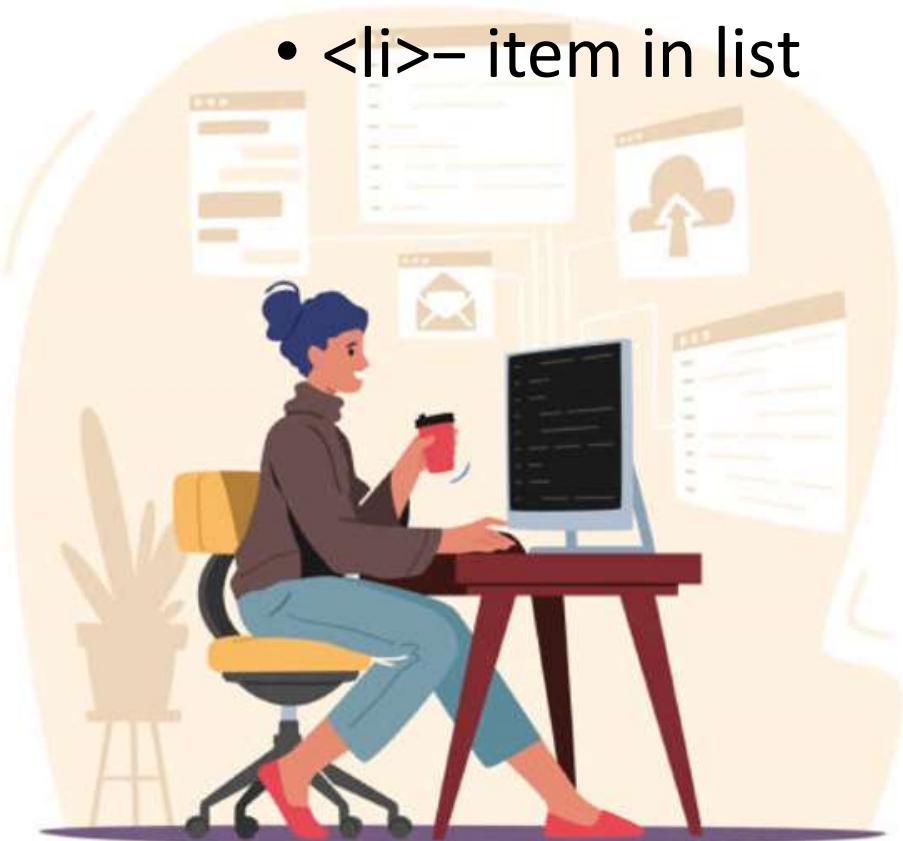


Month	Savings
January	\$100
February	\$80
Sum: \$180	

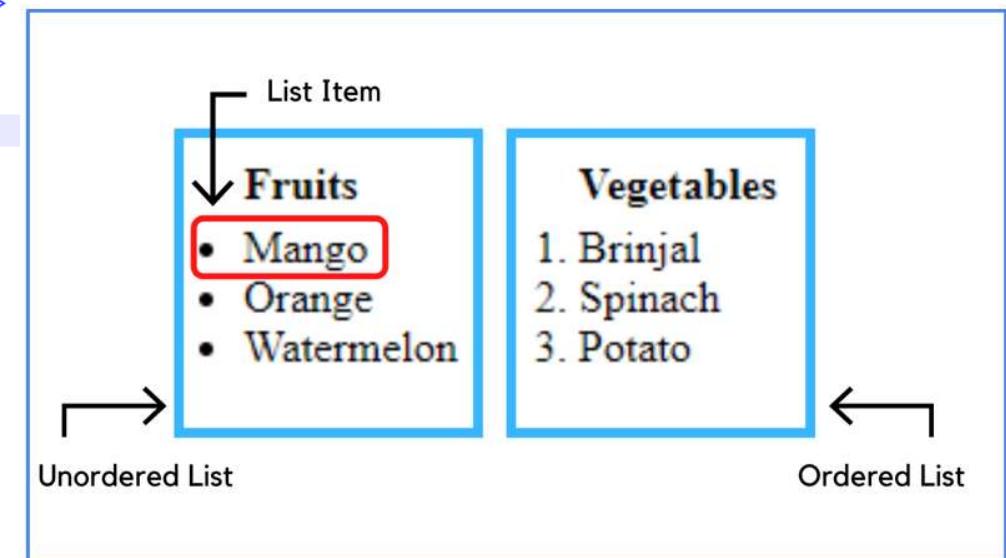


HTML Lists

- - An unordered list
- - An ordered list
- - item in list



```
1  <html>
2    <head>
3      <title> IICT TEST </title>
4    </head>
5
6    <body>
7      <h2>Fruits</h2>
8      <ul>
9        <li>Mango</li>
10       <li>Orange</li>
11       <li>Watermelon</li>
12     </ul>
13
14      <h2>Vegetables</h2>
15      <ol>
16        <li>Brinjal</li>
17        <li>Spinach</li>
18        <li>Potato</li>
19      </ol>
20
21    </body>
22
23  </html>
```

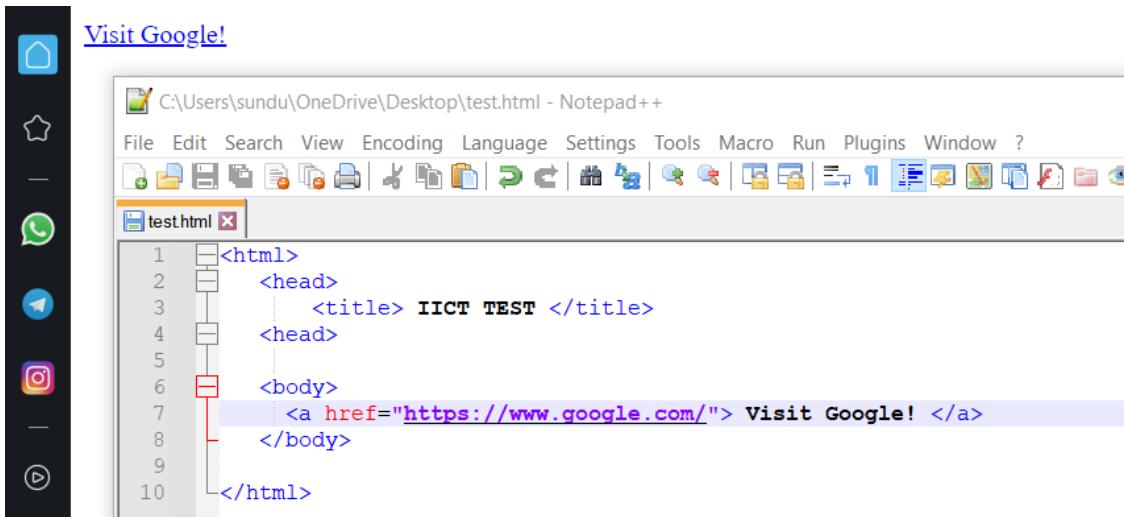


HTML Links

- A link is specified using HTML tag.
- The tag is called the anchor tag and anything between the opening tag and the closing tag becomes part of the link.
- ‘href’ is used to create hyperlink

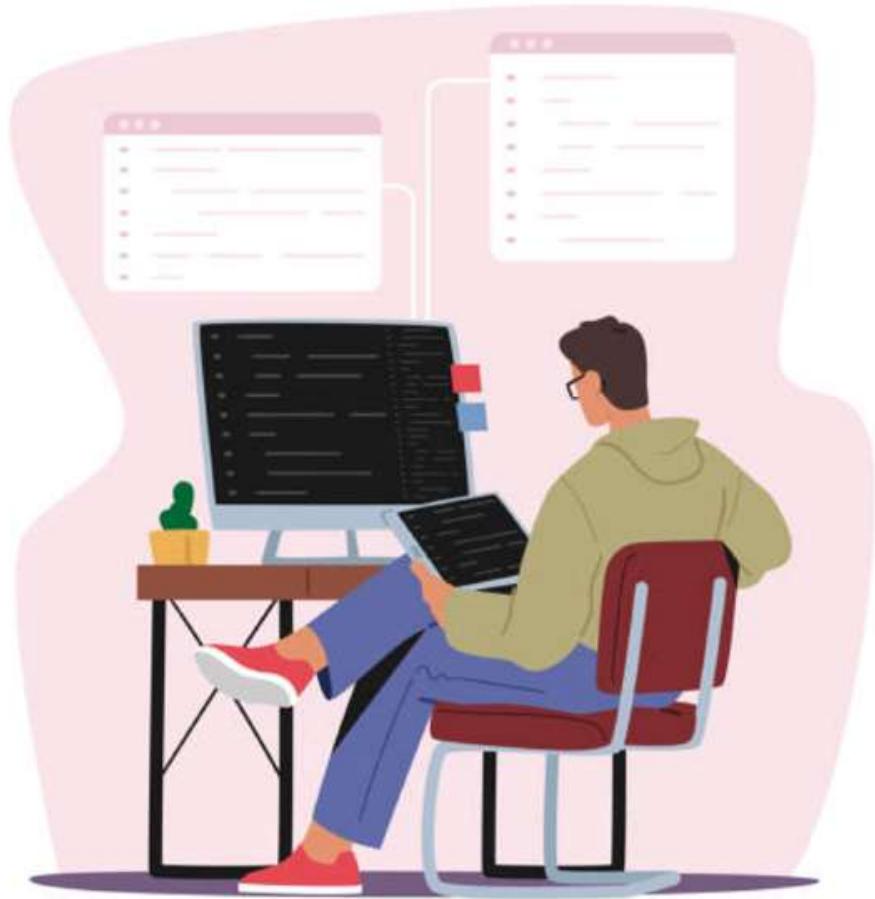
Example:

```
<a href="https://www.google.com/"> Visit Google! </a>
<a href="secondPage.html"> Go to second page </a>
```



The screenshot shows the Notepad++ interface with an open file named 'test.html'. The code contains two anchor tags. The first tag, located in the body section, has a href attribute pointing to 'https://www.google.com/' and the text 'Visit Google!' inside it. The second tag also points to 'secondPage.html' and the text 'Go to second page'. The Notepad++ toolbar and menu bar are visible at the top.

```
<a href="https://www.google.com/"> Visit Google! </a>
<a href="secondPage.html"> Go to second page </a>
```



HTML Button

`<button>` tag is used to create a clickable button within HTML form on your webpage. You can put content like text or image within the `<button>..</button>` tag.

There are different types of buttons that includes submit type, reset type, etc.



There are two ways in which you can use a button to link your webpages

1. ` <button> next</button>`
(the hyperlink will become a button with no highlighted portion)

2. `<button> back </button>`
(the button will become a hyperlink)

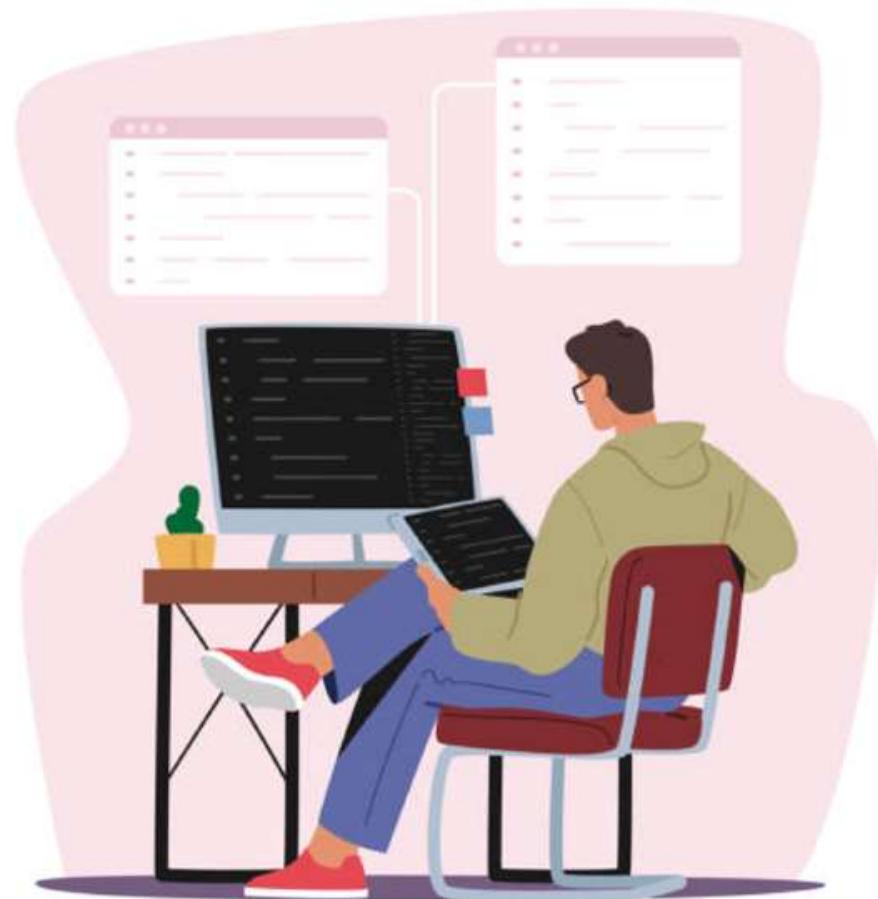
HTML Buttons

next

```
C:\Users\andu\OneDrive\Desktop\test.html - Notepad++  
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?  
a b c d e f g h i j k l m n o p q r s t u v w x y z  
button.html test.html  
1 <html>  
2   <head>  
3     <title> IICT TEST </title>  
4   </head>  
5  
6   <body>  
7     <a href="new_1.html"> <button> next</button></a>  
8   </body>  
9  
10 </html>  
Hyper Text Markup L length : 154 lines : 10 Ln:7 Col:53 Sel:48|1 Windows (CR LF) UTF-8 INS
```

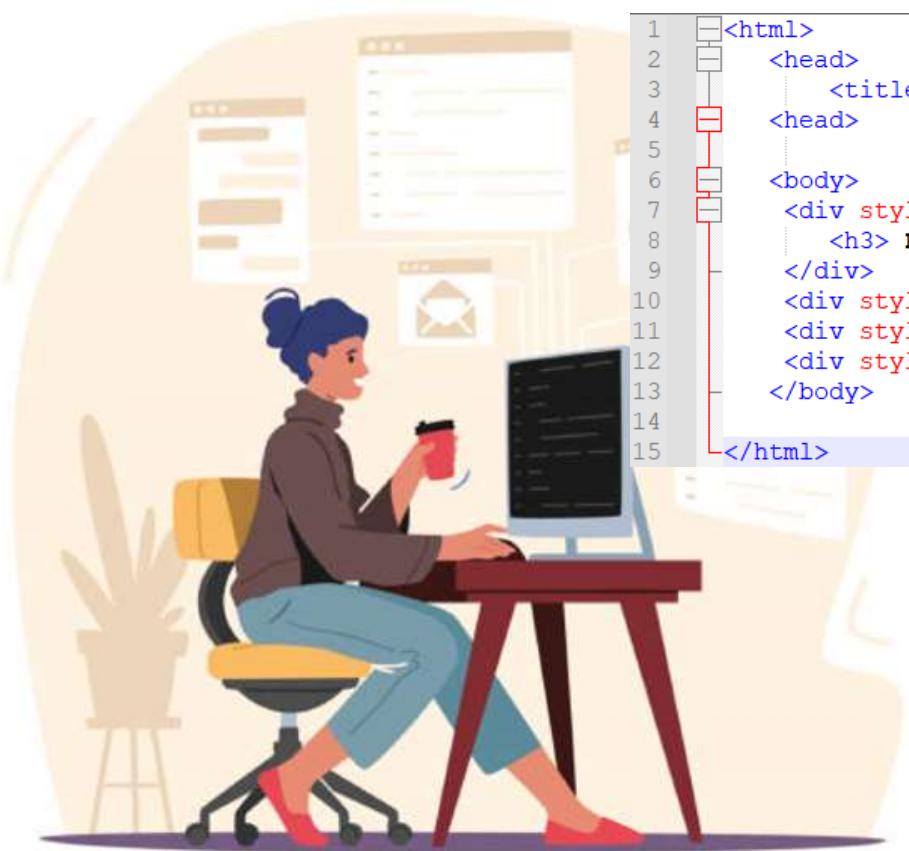
back

```
C:\Users\andu\OneDrive\Desktop\new_1.html - Notepad++  
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?  
a b c d e f g h i j k l m n o p q r s t u v w x y z  
button.html test.html  
1 <html>  
2   <head>  
3     <title> IICT TEST </title>  
4   </head>  
5  
6   <body>  
7     <button><a href="test.html"> back </a> </button>  
8   </body>  
9  
10 </html>  
Hyper Text Markup L length : 155 lines : 10 Ln:7 Col:6 Sel:48|1 Windows (CR LF) UTF-8 INS
```

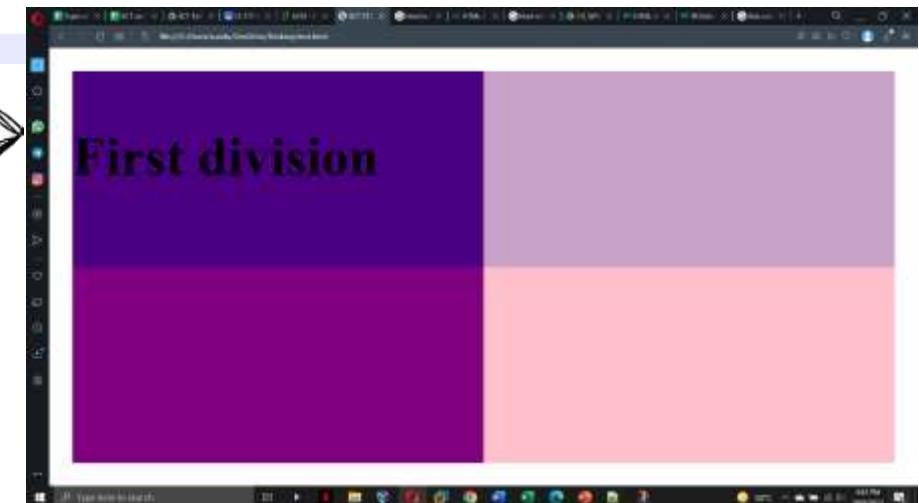


HTML Block

- <div> tag
- Used for grouping of various HTML elements, or making partitions.

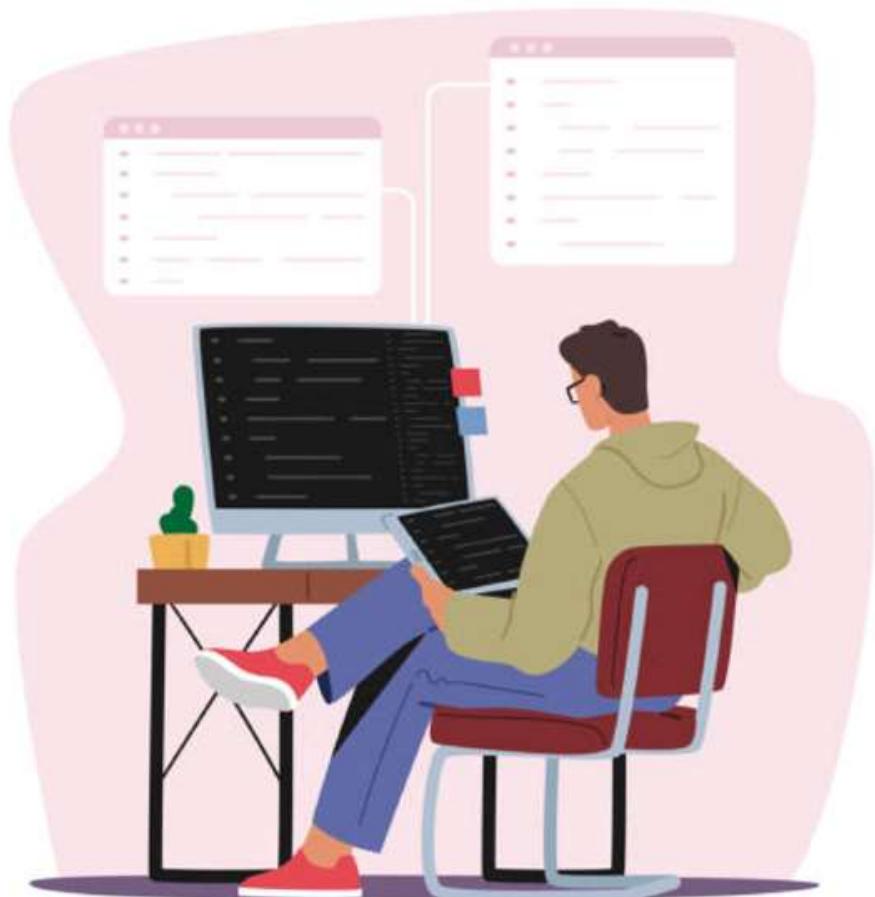


```
1  <html>
2    <head>
3      <title> IICT TEST </title>
4    </head>
5
6    <body>
7      <div style= "background-color: indigo; height: 50% ; width: 50%; float: left">
8        <h3> First division </h3>
9      </div>
10     <div style= "background-color: #C8A2C8; height: 50% ; width: 50%; float: left"></div>
11     <div style= "background-color: purple; height: 50% ; width: 50%; float: left"></div>
12     <div style= "background-color: pink; height: 50% ; width: 50%; float: left"></div>
13   </body>
14
15 </html>
```



HTML Forms

- HTML Form is a document which stores information of a user on a web server using interactive controls.
- An HTML form contains different kind of information such as username, password, contact number, email id etc.
- The elements used in an HTML form are check box, input box, radio buttons, submit buttons etc. Using these elements, the information of a user is submitted on a web server.
- The form tag is used to create an HTML form



Example of HTML Forms



A screenshot of Notepad++ showing an HTML file named "test.html". The file contains the following code:

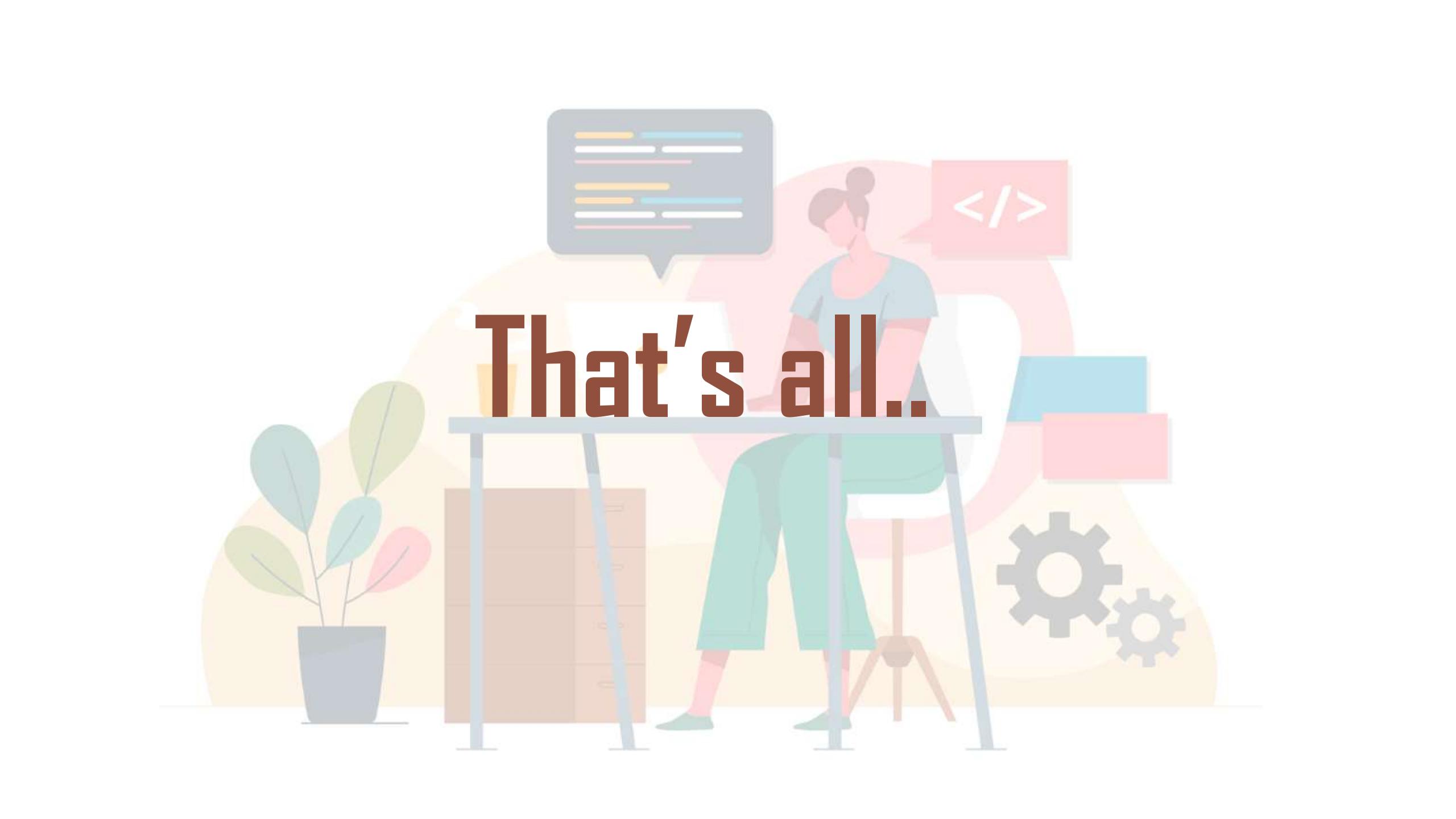
```
<html>
  <head>
    <title> IICT TEST </title>
  </head>

  <body style= "background-color: #C8A2C8">

    <form>
      Username:<br>
      <input type="text" name="username">
      <br>
      Email id:<br>
      <input type="text" name="email_id">
      <br><br>
      <input type="submit" value="Submit">
    </form>

  </body>
</html>
```

The Notepad++ interface shows the file path as "file:///C:/Users/sundu/OneDrive/Desktop/test.html" and the encoding as "UTF-8". The status bar at the bottom indicates the file length is 391 bytes, has 20 lines, and the current position is at line 17, column 5.



That's all..