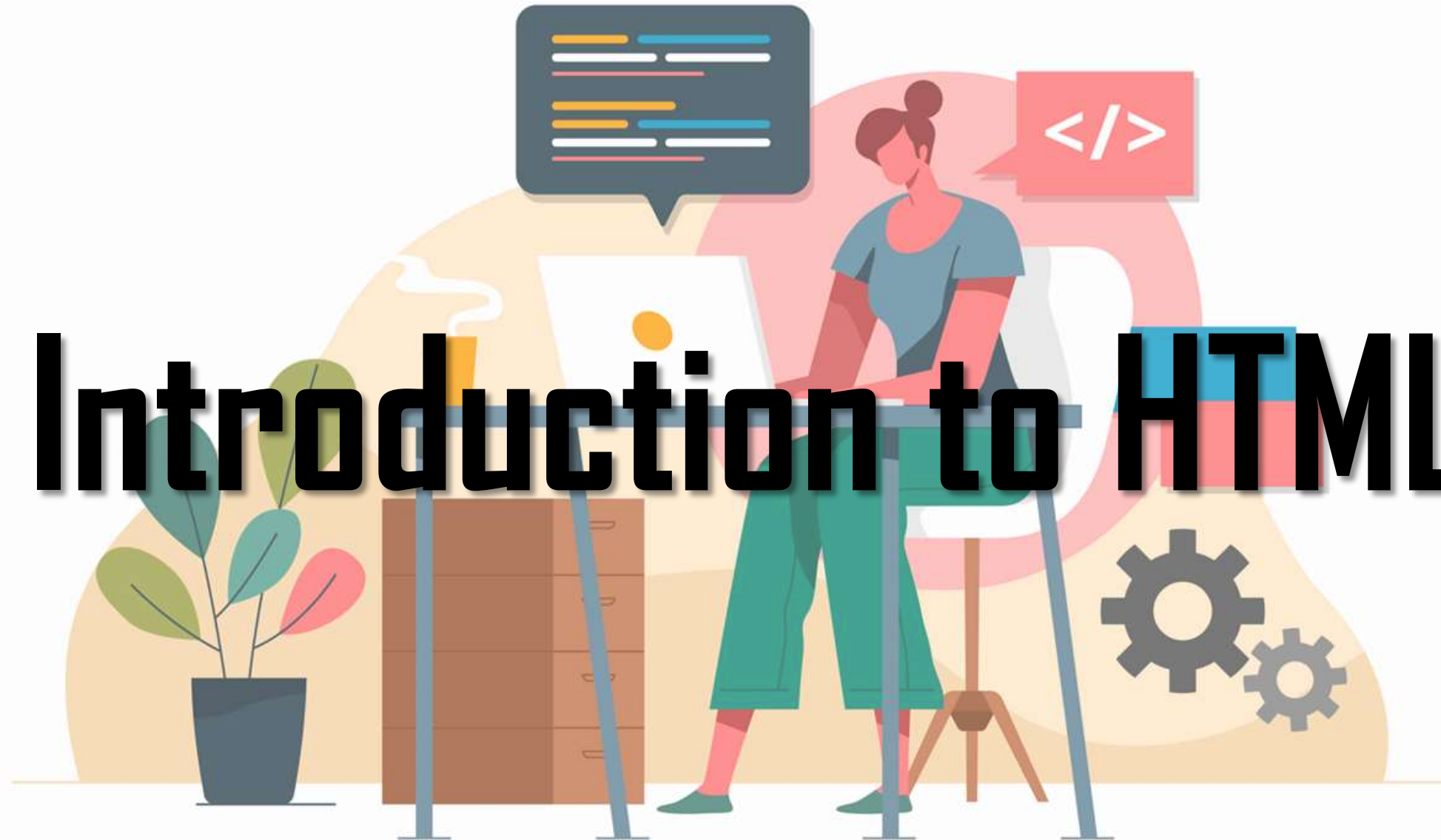
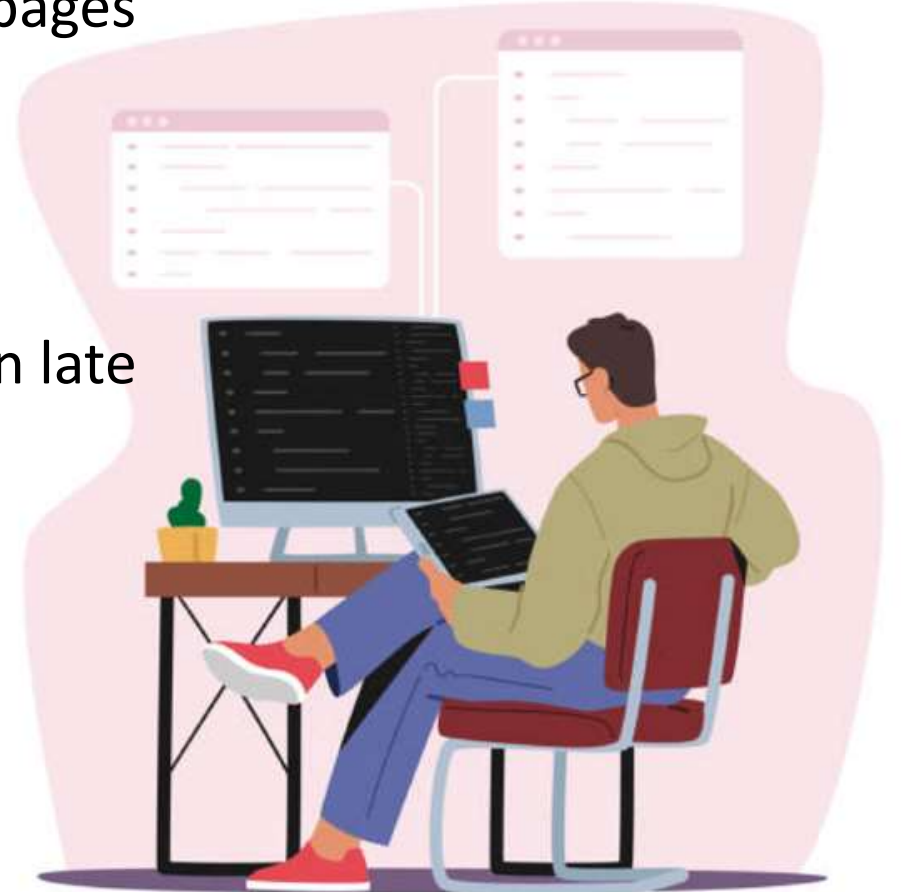


# Introduction to HTML



# 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

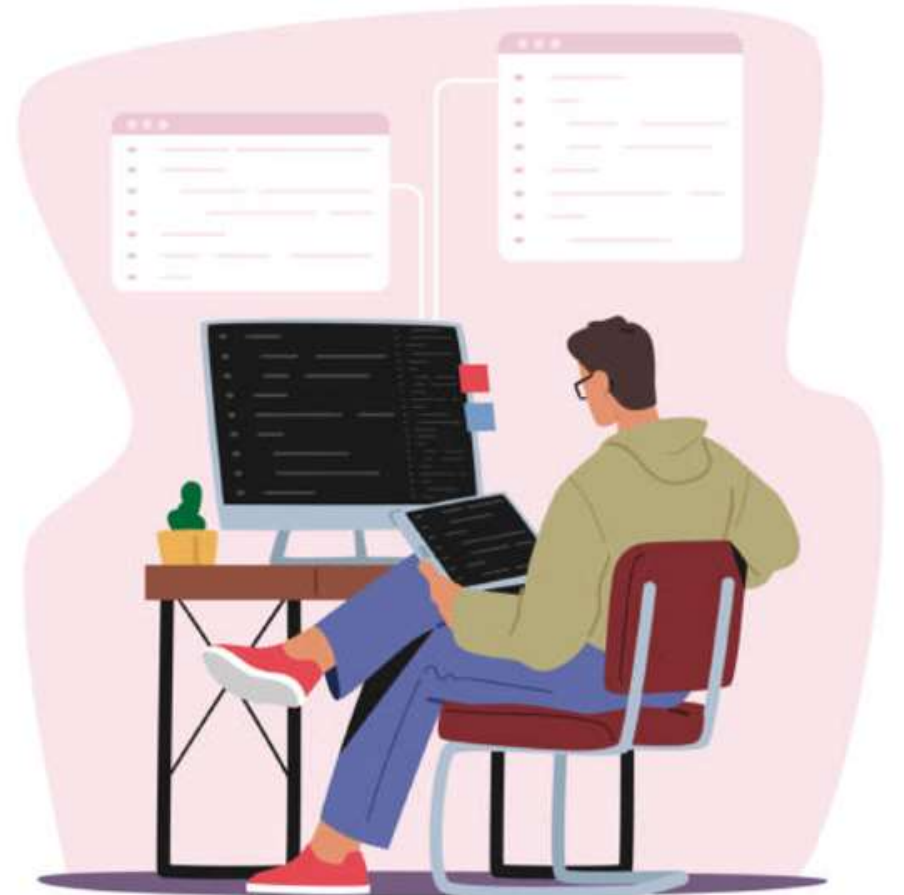
- HTML tags are enclosed within angle braces. <TagName>
- Most of the tags have their corresponding closing tags. <TagStart></TagEnd>
- Example:
  - <html>/html>
  - <body></body>

```
<!DOCTYPE html>
<html>

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

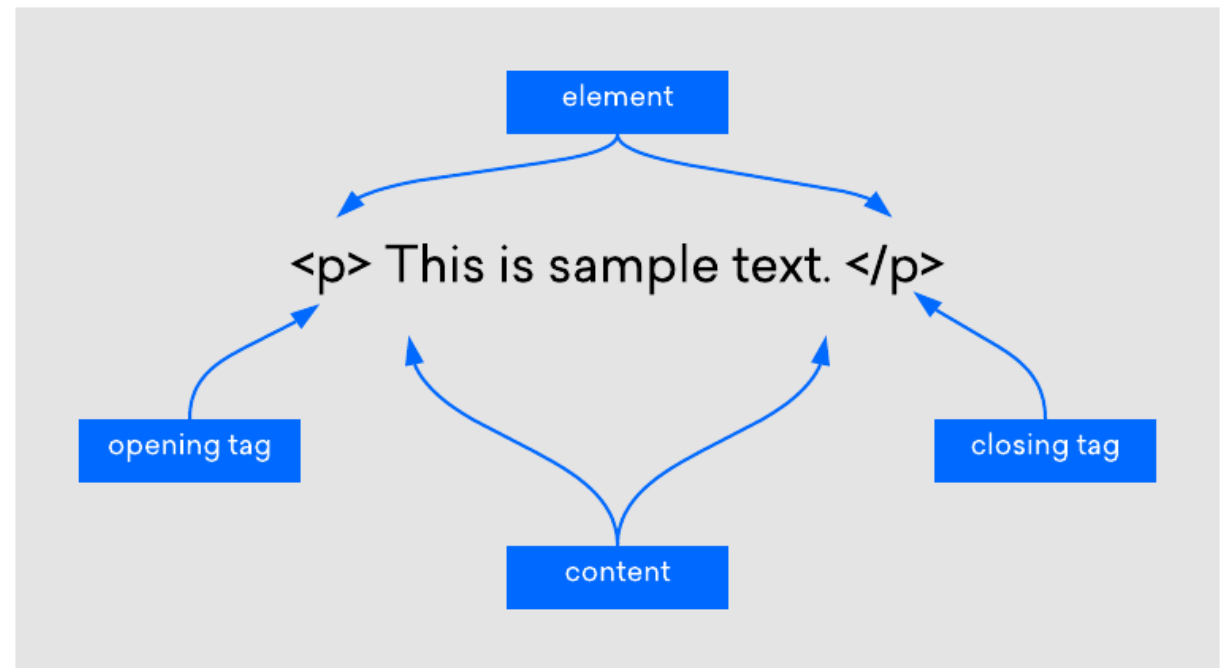
<body>
  <h2>Heading Content</h2>
  <p>Paragraph Content</p>
</body>

</html>
```



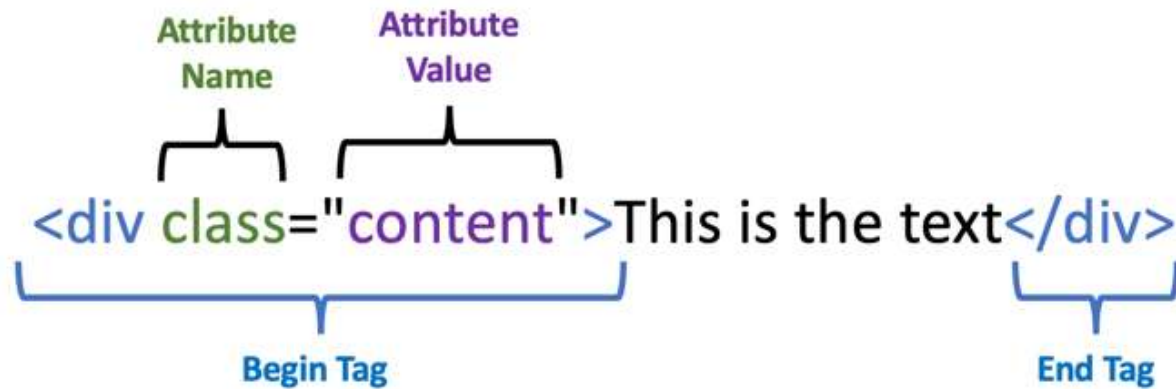
# HTML Element

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



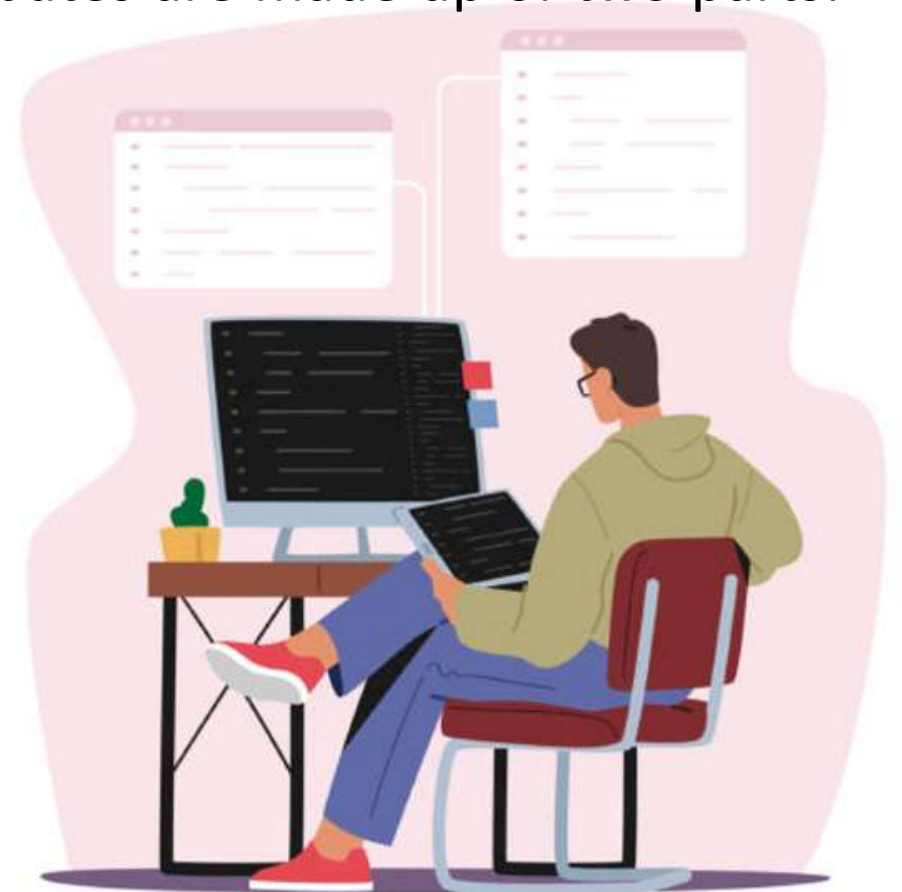
# HTML ATTRIBUTES

- 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
<B>	<b>Bold</b>
<I>	<i>Italic</i>
<U>	<u>Underline</u>
<EM>	<i>Emphasis</i>
<STRONG>	<b>STRONG</b>
<TELETYPE>	TELETYPE
<CITE>	<i>Citation</i>
<STRIKE>	<del>strike-through text</del>
<BIG>	text in a big font
<SMALL>	text in a small font
<SUB>	a <sub>b</sub>
<SUP>	a <sup>b</sup>

**Side note:** all the tags will have a starting tag as well as an ending tag  
Like; <b></b>





# 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   </body>
10
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>
```

Name	Roll Number
Hassan	22i0001
Rafay	22i0002
Manahil	22i0003

```
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    </table>
25  </body>
26
```



# 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	\$50
February	\$80	



# HTML Tables (Colspan)

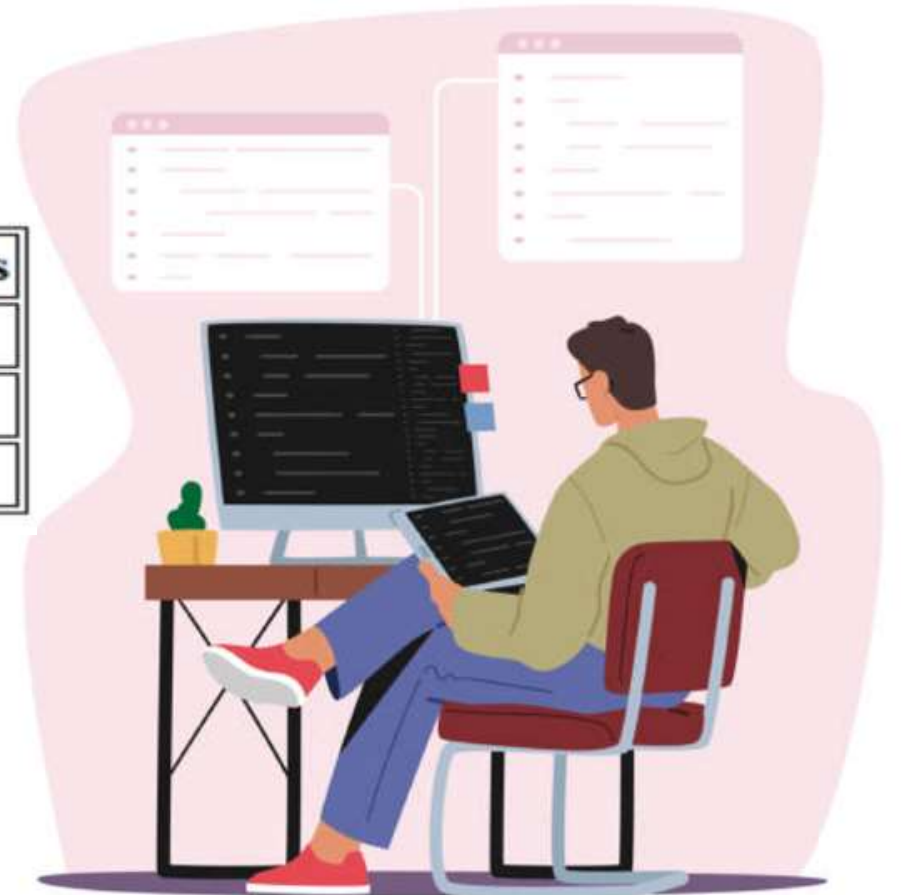
```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
  border: 1px solid black;
}
</style>
</head>
<body>

<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

- `<ul>`– An unordered list
- `<ol>`– An ordered list
- `<li>`– item in list

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



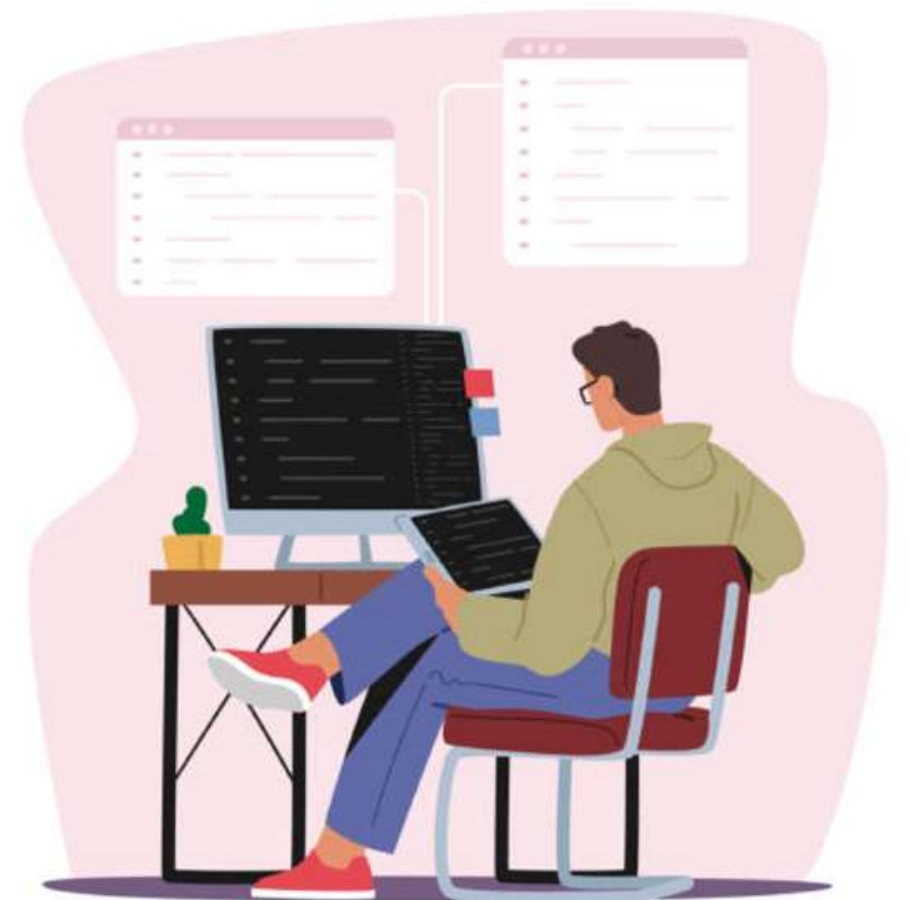
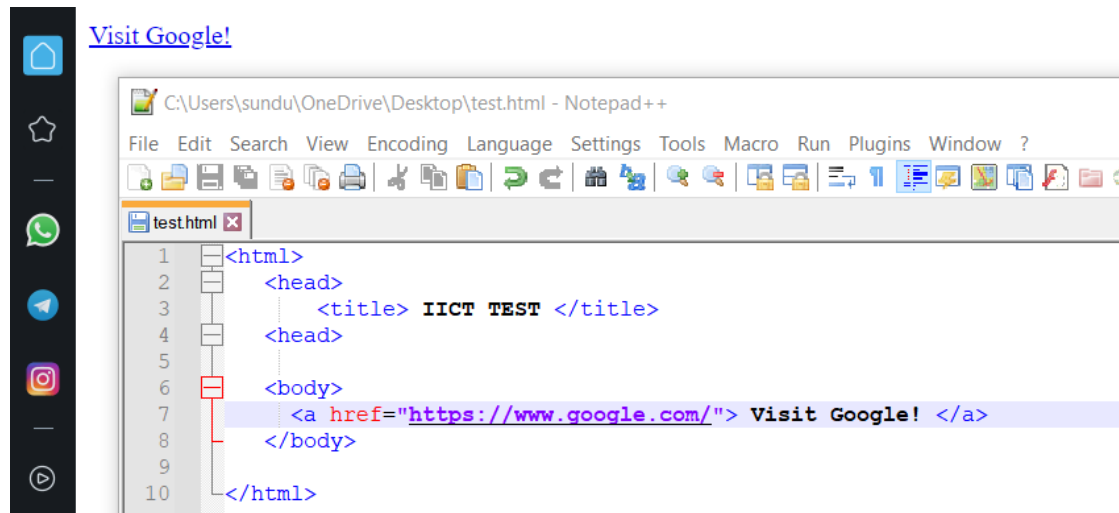
# HTML Links

- 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>`





# 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. `<a href="next.html"> <button> next</button></a>`  
(the hyperlink will become a button with no highlighted portion )
2. `<button><a href="back.html"> back </a> </button>`  
(the button will become a hyperlink)



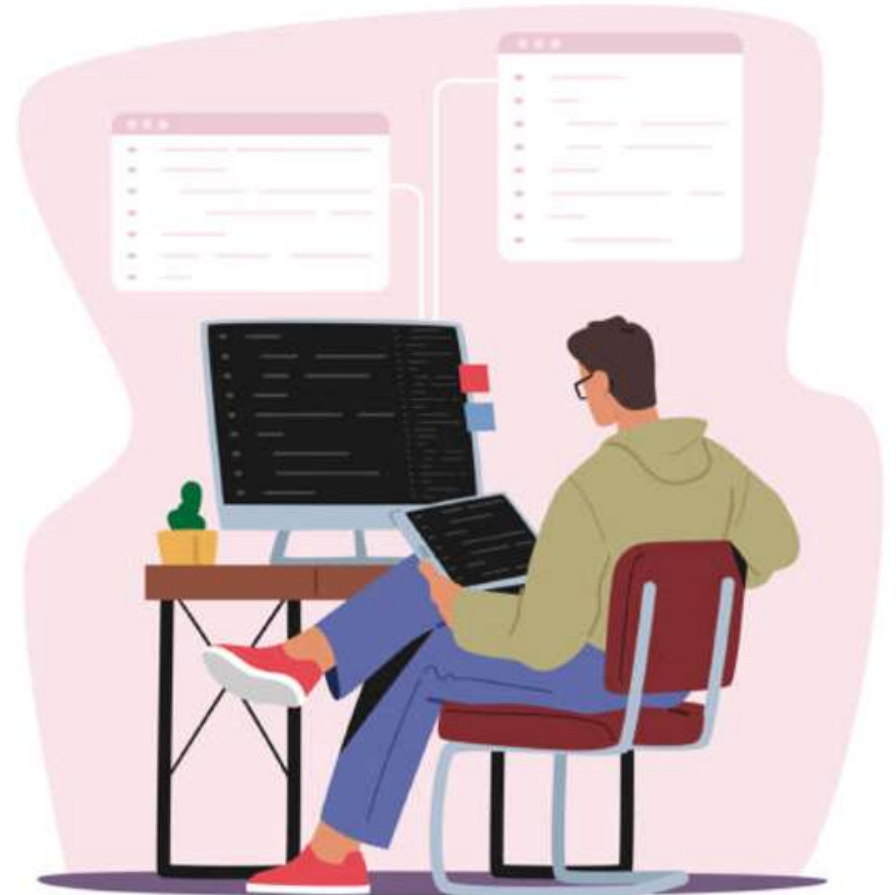
# HTML Buttons

next

```
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>
```

back

```
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>
```



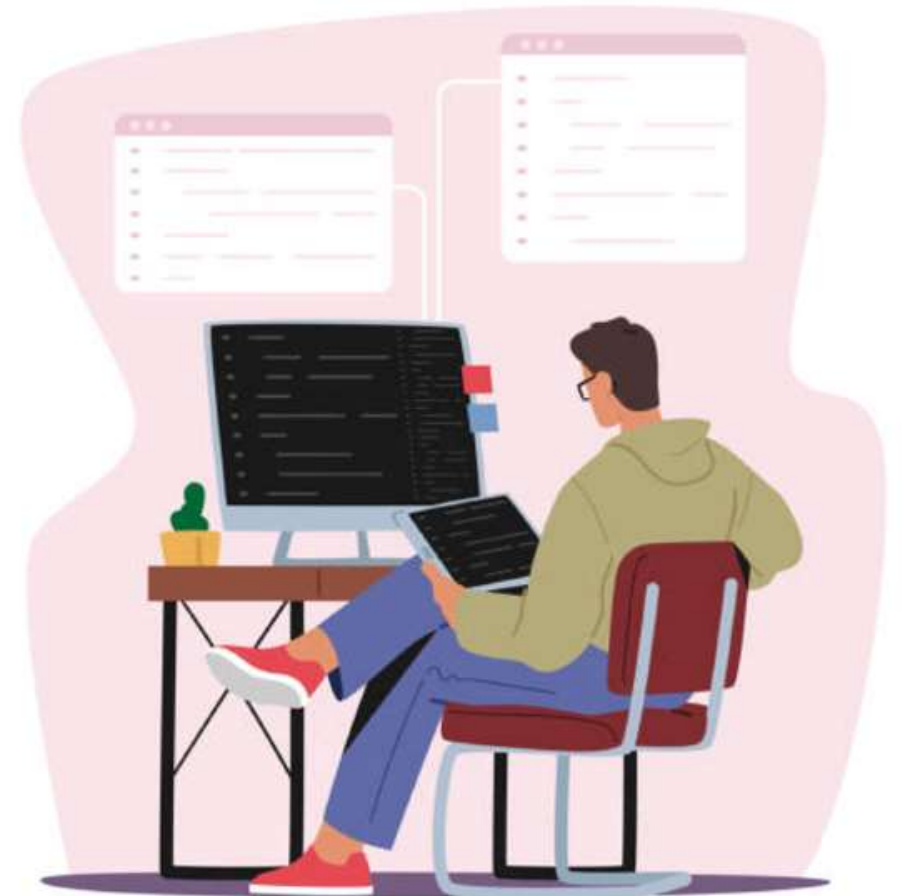
# HTML Block

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



# 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

The image shows a web browser window on the left and a Notepad++ editor window on the right. The browser window displays a simple HTML form with a purple background. It has two text input fields labeled 'Username:' and 'Email id:', and a 'Submit' button. The Notepad++ window shows the HTML code for this form. The code includes a title 'IICT TEST' and a body with a light purple background color. The form contains two text inputs for 'username' and 'email\_id', and a submit button with the value 'Submit'.

```
<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>
```



**That's all..**