Introduction to HTML

HTM

- Hyper Text Markup Language
- Most widely used language on Web to develop web pages
- 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

 Hypertext 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.

Basic HTML

html	Tag	Description
<html></html>		This tag defines the document type and HTML version.
<pre><head> <title>This is document title</title> </head> <body> <h1>This is a heading</h1></body></pre>	<html></html>	This tag encloses the complete HTML document and mainly comprises of document header which is represented by <head></head> and document body which is represented by <body></body> tags.
	<head></head>	This tag represents the document's header which can keep other HTML tags like <title>, keep other HTML tags like <title>, keep</td></tr><tr><td><title></td><td>The <title> tag is used inside the <head> tag to mention the document title.</td></tr><tr><td>Ocument content goes here </body></td><td><body></td><td>This tag represents the document's body which keeps other HTML tags like <h1>, <div>, etc.</td></tr><tr><td></html></td><td><h1></td><td>This tag represents the heading.</td></tr></tbody></table></title>

HTML

Tags

- tags are enclosed within angle braces <Tag Name>.
- most of the tags have their corresponding closing tags.
 - + <html></html>
 - <body></body>
- HTML Document Structure

HTML - BASIC TAGS

- Heading Tags <h1>..... <h6>
- Paragraph Tag
- Line Break Tag

 - This tag is an example of an empty element, where you do not need opening and closing tags, as there is nothing to go in between them.
- Centering Content <center> </center>
- Preserve Formatting

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

```
This is the content of the paragraph element.
```

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**:
- The name is the property you want to set. For example, the paragraph element in the example carries an attribute whose name is **align**, which you can use to indicate the alignment of paragraph on the page.
- The value is what you want the value of the property to be set and always put within quotations.

 The below example shows three possible values of align attribute:

```
left, cent< !DOCTYPE html>
         <html>
         <head>
         <title>Align Attribute Example</title>
         </head>
         <body>
         This is left aligned
         This is center aligned
         This is right aligned
         </body>
         </html>
```

HTML Formatting •Bold

- Italic <i></i>
- <u></u>
- •<big></big>
- •<small></small</p> |>
-
- < sup > </ sup >

HTML phrase tags ·

- •<mark>
- •
- •<blockquote>
- Short quotations
- •<code>

HTML

Images
• Images in Web
page

```
<!DOCTYPE html>
<html>
  <head>
     <title>Using Image in Webpage</title>
  </head>
  <body>
     Simple Image Insert
     <img src = "/html/images/test.png" alt = "Test Image" />
  </body>
</html>
```

HTML

Tables

- The HTML tables are created using the tag in which the
 - tag is used to create table rows
 - tag is used to create data cells. The elements under are regular and left aligned by default.
- Table heading can be defined using tag.
- Cell Padding
 - The distance between cell borders and the content within a cell.
- Cell Spacing
 - Space between table cells.

Exercise

```
<!DOCTYPE html>
  -<html>
  -<head>
    <title>Page Title</title>
4
    </head>
5
  -<body>
   <h1>This is a Heading</h1>
    This is a paragraph.
9
    <img src="pattern.png" alt="Image missing" height="42" width="42"/>
10
    11
      >
12
          Name
13
          Salary
14
      15
16
17
  >
          Arif Hussain
18
          5000
19
                                             Name
                                                    Salary
       20
21
22
  -
      >
                                           Arif Hussain
                                                    5000
          Shabbir Hussain
23
          7000
24
       25
                                           Shabbir Hussain
                                                    7000
26
      27
    </body>
28
    </html>
29
```

Rowspan Colspan?

Exercise (Rowspan)

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
 border: 1px solid black;
</style>
</head>
<body>
Month
  Savings
  Savings for holiday!
 January
  $100
  $50
 February
  $80
 </body>
</html>
```

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

Exercise (Colspan)

```
<!DOCTYPE html>
<html>
<head>
<style>
table, th, td {
 border: 1px solid black;
</style>
</head>
<body>
Month
  Savings
 January
  $100
 February
  $80
 Sum: $180
 </body>
</html>
```

Month	Savings
January	\$100
February	\$80
Sum: \$18	80

Try including

HTML

Lists

- - An unordered list. This will list items using plain bullets.
- <nl>- An ordered list. This will use different schemes of numbers to list your items.

<!DOCTYPE html>

```
<html>
<body>
<h2>An unordered HTML list</h2>

Coffee
Tea
Milk
</body>
</html>
```

An unordered HTML list

- Coffee
- Tea
- Milk

Type Attributes

- •
- type="square">
- •
- •
- •
- •
- •
- •

HTML Links

- A link is specified using HTML tag <a>.
- This tag is called anchor tag and anything between the opening <a> tag and the closing tag becomes part of the link.

HTML block

- The <div> tag
- Used for grouping of various HTML elements.
- HTML font

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

```
<!DOCTYPE html>
<html>
<body>
<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>
```

Output:	
	Username:
	Email id:
	Submit