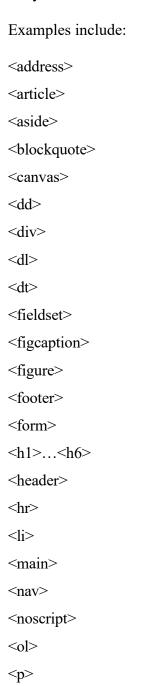
1.5 Types of Elements (Inline/Block)

HTML elements can be categorized in several ways, primarily based on their display behavior and their purpose.

1. Block-level Elements:

These elements typically start on a new line and take up the full available width of their parent container.

They are used to structure the main sections of a web page.

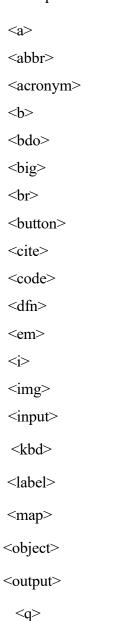


<section></section>	
<tfoot></tfoot>	
ul>	
<video></video>	

2. Inline Elements:

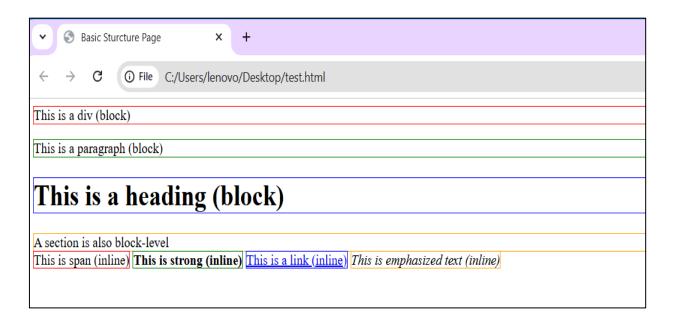
These elements do not start on a new line and only take up as much width as their content requires. They are used to style or structure content within a block-level element.

Examples include:



<samp>

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8"/>
 <meta name="viewport" content="width=device-width, initial-scale=1.0" />
 <title>Basic Sturcture Page</title>
</head>
 <body>
 <!--block level elements-->
 <div >This is a div (block)</div>
 This is a paragraph (block)
 <hl>This is a heading (block)</hl>
 <section style="border: lpx solid
  orange"> A section is also block-level
 </section>
 <!--inline elements-->
 <span>This is span (inline)</span>
 <strong > This is strong (inline) </strong>
 <a bref="#" >This is a link (inline)</a>
 <em>This is emphasized text (inline)</em>
</body>
```



Tag	Description		
<html> </html>	Declares the Web page to be written in HTML		
<head> </head>	Delimits the page's head		
<title> </title>	Defines the title (not displayed on the page)		
<body> </body>	Delimits the page's body		
<h n=""> </h>	Delimits a level <i>n</i> heading		
 	Set in boldface		
<i> </i>	Set in italics		
<center> </center>	Center on the page horizontally		
	Brackets an unordered (bulleted) list		
 	Brackets a numbered list		
 	Brackets an item in an ordered or numbered list		
 	Forces a line break here		
	Starts a paragraph		
<hr/>	Inserts a horizontal rule		
	Displays an image here		
 	Defines a hyperlink		

1.13 HTML Comments

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8"/>
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>HTML Comments</title>
 </head>
 <body><!—body start -->
<!--section is started from here! -->
<section>
<h2> HTML Comments</h2>
The comment tag is used to insert comments in the source code. Comments are not displayed in the
browsers. <br/>br> You can use comments to explain your code, which can help you when you edit the source code at a
later date. <br/>
- Strain is especially useful if you have a lot of code..
</section>
</body> <!--body end--></html>
```

Comments can be inserted into the HTML code to make it more readable and understandable. Comments are ignored by the browser and are not displayed.



1.6 Text Formatting Elements:

In this chapter, you will learn how to enhance your page with Bold, Italics, and other character formatting options.

Objectives: Upon completing this section, you should be able to change the color and size of your text. Where we use Common Character Formatting Elements even can add special characters.

```
<FONT SIZE="+2"> Two sizes bigger</FONT>
```

The size attribute can be set as an absolute value from 1 to 7 or as a relative value using the "+" or "-" sign. Normal text size is 3 (from -2 to +4).

```
<FONT COLOR="#RRGGBB">this text has color</FONT>
```

Color = "#RRGGBB" The COLOR attribute of the FONT element.

 Bold

<I> Italic </I>

<U> Underline </U>

<PRE> Preformatted </PRE>

Text enclosed by PRE tags is displayed in a mono-spaced font. Spaces and line breaks are supported without additional elements or special characters.

```
<EM> Emphasis </EM>
```

Browsers usually display this as italics.

```
<STRONG> STRONG </STRONG>
```

Browsers display this as bold.

```
<TT> TELETYPE </TT>
```

Text is displayed in a mono-spaced font. A typewriter text, e.g. fixed-width font.

```
<STRIKE> strike-through text</STRIKE>
```

DEL is used for STRIKE at the latest browsers

<BIG> places text in a big font</BIG>

<SMALL> places text in a small font</SMALL>

_{places text in subscript position}

^{places text in superscript style position}

<ins>showing new inserted text</ins>

<mark>used for

highlighting</mark> HTML

ENTITIES

Some characters are reserved in HTML.

If you use the less than (<) or greater than (>) signs in your HTML text, the browser might mix them with tags.

- Entity names or entity numbers can be used to display reserved HTML characters.
- Entity names look like this: &entity name;
- Entity numbers look like this: &#entity number;

HTML ENTITIES or Characters & Symbols

These Characters are recognized in HTML as they begin with an ampersand and end with with a semi- colon e.g. &value; The value will either be an entity name or a standard ASCII character number. They are called escape sequences.

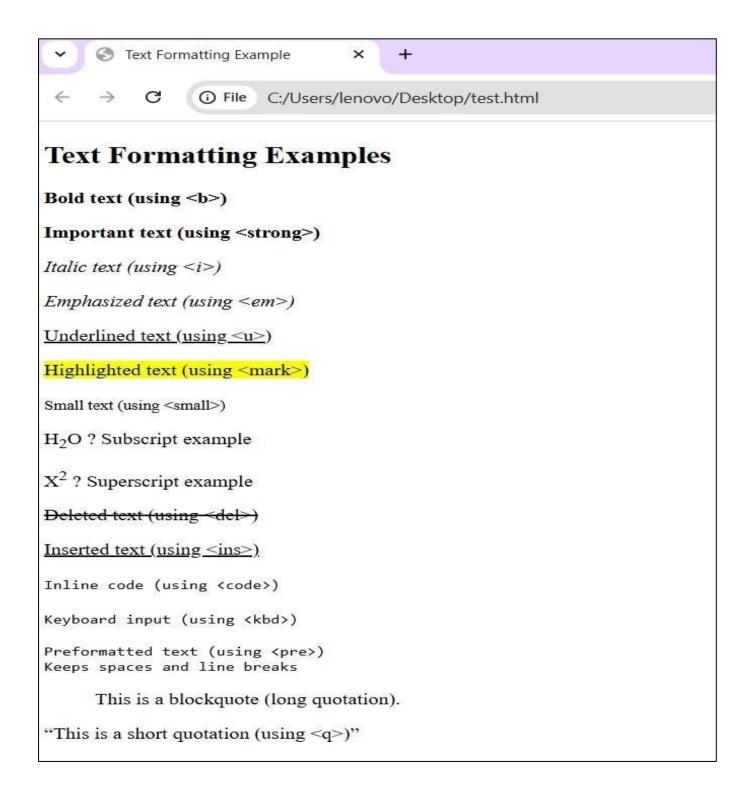
The next table represents some of the more commonly used special characters. For a comprehensive listing.

ASSIGNMENT

- Design a basic HMTL page using any two semantic and non-semantic elements.
- Design a HTML page creating hyperlink for text, images and all media elements.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Text Formatting Example</title>
 head>
<body>
<h2>Text Formatting Examples</h2>
<b>Bold text (using &lt;b&gt;)</b>
<strong>Important text (using
<strong&gt;)</strong>
<i>Italic text (using &lt;i&gt;)</i>
<em>Emphasized text (using &lt;em&gt;)</em>
<u>Underlined text (using &lt;u&gt;)</u>
<mark>Highlighted text (using &lt;mark&gt;)</mark>
<small>Small text (using &lt;small&gt;)</small>
H<sub>2</sub>O → Subscript example
X< sup>2</ sup> \rightarrow Superscript example
<del>Deleted text (using &lt;del&gt;)</del>
<ins>Inserted text (using &lt;ins&gt;)</ins>
<code>Inline code (using &lt;code&gt;)</code>
<kbd>Keyboard input (using &lt;kbd&gt;)</kbd>
Preformatted text (using <pre&gt;)
 Keeps spaces and line breaks
<blockquote cite="https://www.example.com">
 This is a blockquote (long quotation).
</blockquote>
<q>This is a short quotation (using
```

lt;q>)



Special Character	Entity Name	Special Character	Entity Name
Ampersand	& &	Greater-than sign	>>
Asterisk	∗ **	Less-than sign	< <
Cent sign	¢ ¢	Non-breaking space	
Copyright	© ©	Quotation mark	" "
Fraction one qtr	¼ 1/4	Registration mark	® ®
Fraction one half	½ ½	Trademark sign	™ TM

HTML ENTITIES or Characters & Symbols

Additional escape sequences support accented

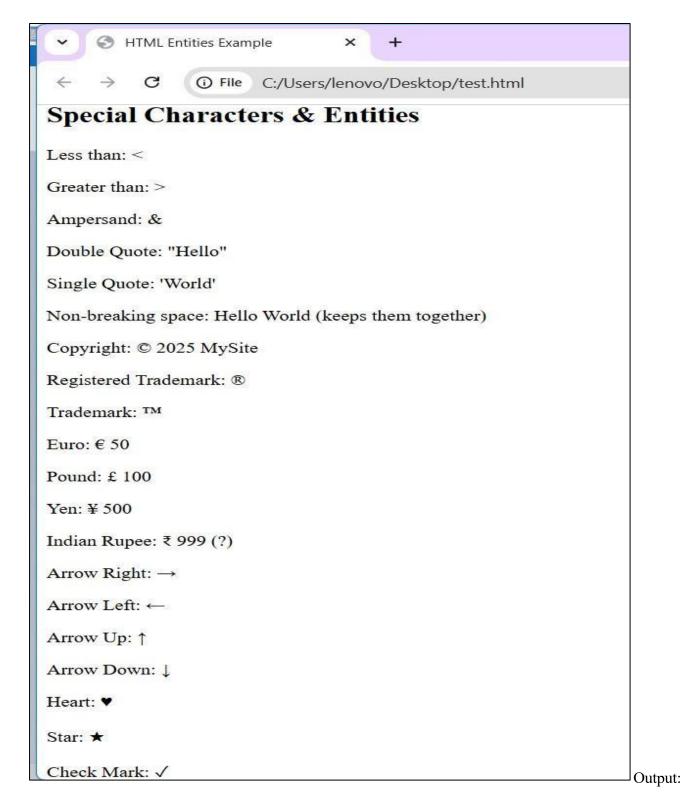
characters, such as:

- **ö** a lowercase o with an umlaut: ö
- ñ a lowercase n with a tilde: ñ
- È an uppercase E with a grave accent: È

NOTE: Unlike the rest of HTML, the escape sequences are case sensitive. You cannot, for instance, use < instead of <

```
<!DOCTYPE html>
     <html lang="en">
      <head>
       <meta charset="UTF-8"/>
       <title>HTML Entities Example</title>
      </head>
      <body>
       <h2>Special Characters & Entities</h2>
       Less than: <
       Greater than: >
       Ampersand: &
       >Double Quote: "Hello"
       Single Quote: ' World' 
       Non-breaking space: Hello  World (keeps them together)
       Copyright: © 2025 MySite
       Registered Trademark: ®
       Trademark: ™
       Euro: € 50
       Pound: £ 100
       Yen: ¥ 500
       Indian Rupee: ₹ 999 (₹)
```

Arrow Right: →



1.14 Text related Elements (Quotation and Citation Elements)

HTML provides specific elements for semantically marking up quoted text and citations, enhancing accessibility and structure.

- **<abbr>** Defines an abbreviation or acronym**<bdo>** Defines the text direction
- <blockquote> Defines a section that is quoted from another source
- **<cite>** Defines the title of a work
- <q> Defines a short inline quotation

1.15 Using Multimedia (Image/video/Audio/youtube) in HTML:

A variety of tags such as the tag, <video> tag, and <audio> tag are available in HTML to include media on your web page. Multimedia combines different media, such as images, audio, and videos. Users will have a better experience when multimedia is embedded into HTML.

Media Tag	Description	
<audio></audio>	An inline element is used to embed sound files into a web page.	
<video></video>	Used to embed video files into a web page.	
<source/>	Used to attach multimedia files like audio, video, and pictures.	
<embed/>	Used for embedding external applications, generally multimedia content like audio or video, into an HTML document.<	
<track/>	Specifies text tracks for media components, specifically for audio and video elements.	

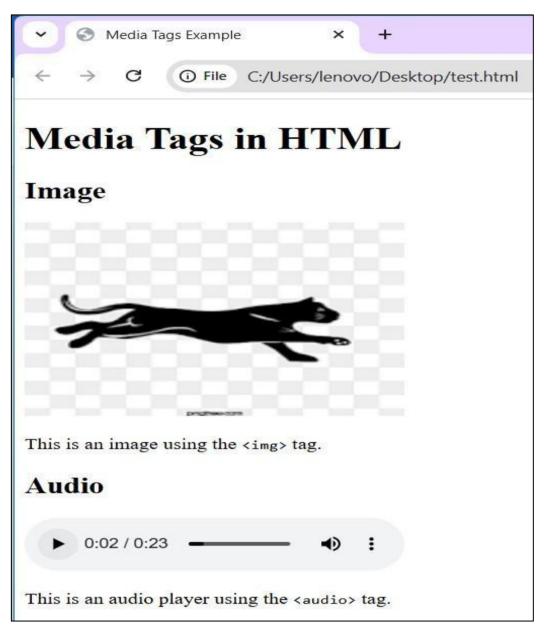
```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
 <title>Media Tags Example</title>
 </head>
 <body>
  <h1>Media Tags in HTML</h1>
 <h2>Image</h2> <!-- Image Example -->
  <img src=https://via.placeholder.com/300x200 alt="Sample Image" width="300" height="200" />
  This is an image using the <code>&lt;img&gt;</code> tag. <!-- Audio Example -->
  <h2>Audio</h2>
  <audio controls>
   <source src="sample-audio.mp3" type="audio/mpeg" />
  <source src="sample-audio.ogg" type="audio/ogg" />
  Your browser does not support the audio element.
  </audio>
  This is an audio player using the <code>&lt;audio&gt;</code>
  tag. <h2>Video</h2> <!-- Video Example --> <video width="400"
  controls>
   <source src="sample-video.mp4" type="video/mp4" />
  <source src="sample-video.ogg" type="video/ogg" />
   Your browser does not support the video tag. </video>
  This is a video player using the <code>&lt;video&gt;</code> tag.
  <!-- Iframe Example -->
  <h2>Embedded Video (Iframe)</h2>
  <iframe width="400" height="250" src="https://www.youtube.com/embed/dQw4w9WgXcQ"
  title="YouTube Video" frameborder="0" allowfullscreen ></iframe>
  This uses <code>&lt;iframe&gt;</code> to embed a YouTube video.
</body> </html>
```

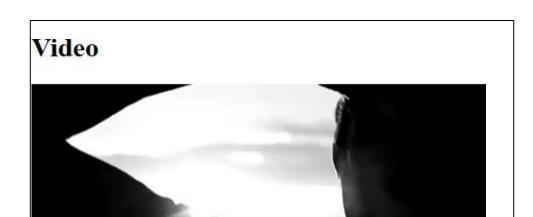
```
<audio controls autoplay>
  <source src="horse.ogg" type="audio/ogg">
  <source src="horse.mp3" type="audio/mpeg">
  Your browser does not support the audio element.
  </audio>

<audio controls autoplay muted>
  <source src="horse.ogg" type="audio/ogg">
  <source src="horse.mp3" type="audio/mpeg">
  Your browser does not support the audio element.
  </audio>

<video width="320" height="240" autoplay>
  <source src="movie.mp4" type="video/mp4">
  <source src="movie.ogg" type="video/ogg">
  Your browser does not support the video tag.
```

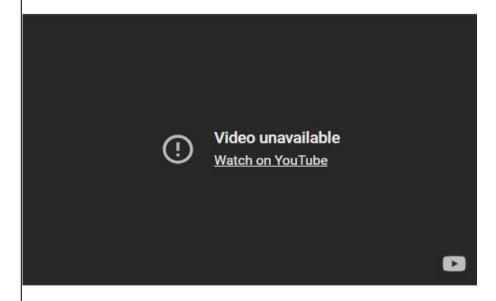
</video>





This is a video player using the <video> tag.

Embedded Video (Iframe)



This uses <iframe> to embed a YouTube video.

Advantage of Media tag:

- Plugins are no longer required
- fashion than imported third-party
- Native (built-in) controls are provided by the browser.
- Accessibilities (keyboard, mouse) are built-in automatically

1.16 Creating s Using Hyperlinks:

The <a> HTML element (or anchor element), with its href attribute, creates a hyperlink to web pages, files, email addresses, locations in the same page, or anything else a URL can address.

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8" />
<title>hyperlink in HTML</title>
</head>
<body>
<h1>Hyperlink in HTML</h1>
<!-- Hyperlink Example -->
<a href="http://www.facebook.com" target="_blank"> This is a link</a>
</body>
</html>
```

