HTML Lists

HTML Lists: is to use list element

List Types: In HTML there **3 types** of list

1. Order List: is used for lists of items for which the order of the items does matter.

2. Unordered List: is a list in which the order of the **list items does not matter**.

3. Definition List: A description list is a list of terms, with a description of each term.

1. Order List:

An ordered list starts with the <ol> tag. Each list item starts with the <li> tag.

The list items will be marked with **numbers by default**:

```
<ol>
        <li>----------</li>
        <li>----------</li>
        <li>----------</li>
</ol>
```

Example:

```
<p><b>Cars Types:</b>
<ol>
        <li>Hunda</li>
        <li>Toyota</li>
        <li>BMW</li>
        <li>Hyundai</li>
</ol>
</p>
```


Cars Types:
1. Hunda
2. Toyota
3. BMW
4. Hyundai

Unorder list: The list items will be marked with **filled circle called disc**:

Format :   ----------

Example:

```
<p>My Hobbies are</p>

<ul>

        <li>Reading</li>

        <li>Problem Solving</li>

        <li>Running</li>

</ul>
```

My Hobbies are

- Reading
- Problem Solving
- Running

2. HTML Description Lists

The <dl> tag defines the **description list**, the <dt> tag defines the **term** (name), and the <dd> tag **describes** each term:

dt: definition Term

dd: definition data

Format : <dl>

                <dt>---------</dt>

                <dd>---------</dd>

                <dt>---------</dt>

                <dd>---------</dd>

                <dt>---------</dt>

                <dd>---------</dd>

        </dl>

Example:

```
<p>List of the course I like to teach</p>

<dl>

        <dt>DBMS</dt>

        <dd>Database Management Mystem</dd>

        <dt>OOP</dt>

        <dd>Object Oriented Programming</dd>

</dl>
```

List of the course I like to teach

DBMS
        Database Management Mystem
OOP
        Object Oriented Programming

Example 2

<p> Drink Types</p>

<dl>

 <dt>Coffee</dt>

 <dd> - black hot drink</dd>

 <dt>Milk</dt>

 <dd> - white cold drink</dd>

</dl>

Drink Types

Coffee
        - black hot drink
Milk
        - white cold drink

Order list attributes:

1. type attribute

The type attribute of the <ol> tag, defines the type of the list item marker:

Type	Description
type="1"	The list items will be numbered with numbers (default)
type="a"	The list items will be numbered with lowercase letters a b c b........
type="A"	The list items will be numbered with uppercase letters A B C D ......
type="i"	The list items will be numbered with lowercase roman numbers i ii ii iv v
type="I"	The list items will be numbered with uppercase roman numbers I II II IV V VI

Ex: Lowercase roman numbers

<p><h3>The list of tags the we discussed till this lecture are: </h3>

<ol type="i">

        HTML tag

        Title tag

        Body tag

        Heading tags

        Paragraph tag

</p>

The list of tags the we discussed till this lecture are:

    i. HTML tag
   ii. Title tag
  iii. Body tag
   iv. Heading tags
    v. Paragraph tag

Ex. Uppercase Letters:

```
<ol type="A">
<li>Coffee</li>
<li>Tea</li>
<li>Milk</li>
</ol>
```

> **Try the code and draw the output here.**

Ex. Lowercase Letters:

```
<ol type="a">
<li>Coffee</li>
<li>Tea</li>
<li>Milk</li>
</ol>
```

> **Try the code and draw the output here.**

Ex. Uppercase Roman Numbers:

```
<ol type="I">
<li>Coffee</li>
<li>Tea</li>
<li>Milk</li>
</ol>
```

> **Try the code and draw the output here.**

Ex. Lowercase Roman Numbers:

```
<ol type="i">
<li>Coffee</li>
<li>Tea</li>
<li>Milk</li>
</ol>
```

> **Try the code and draw the output here.**

3. **start attribute:**

Ex1. Lower case letters started form 5th letter (e)

<p>The list of tags the we discussed till this lecture are:

<ol type="a" start="5">

    HTML tag

    Title tag

    Body tag

    Heading tags

    Paragraph tag

</p>

The list of tags the we discussed till this lecture are:

    e. HTML tag
    f. Title tag
    g. Body tag
    h. Heading tags
    i. Paragraph tag

Ex2. Lower case roman started from 5

<p>The list of tags the we discussed till this lecture are:

<ol type="i" start="5">

    HTML tag

    Title tag

    Body tag

    Heading tags

    Paragraph tag

</p>

The list of tags the we discussed till this lecture are:

    v. HTML tag
    vi. Title tag
    vii. Body tag
    viii. Heading tags
    ix. Paragraph tag

Unorder list attributes

The CSS list-style-type property is used to define the style of the list item marker:

1. type attribute: The type attribute is used to tell the browser which type of list marker to apply to a list.

Ex: <p>The list of tags the we discussed till this lecture are:

    <ul type="square">

      HTML tag

      Title tag

       Body tag

2. style attribute: setting the style of an HTML element and that is the proper way to style list markers now that the type attribute has been deprecated. The type attribute of <ul> is not supported in HTML5. Use CSS instead.

Ex: <p>The list of tags the we discussed till this lecture are:

      <ul **style="list-style-type:square; ">**

        HTML tag

        Title tag

        Body tag

The list of tags the we discussed till this lecture are:

- HTML tag
- Title tag
- Body tag

ul list style attribute property and values:

list-style-type:disc	Sets the list item marker to a bullet (default)
list-style-type:circle	Sets the list item marker to a circle
list-style-type:sqaure	Sets the list item marker to a square
list-style-type:none	The list items will not be marked

Example- Disc

<ul style="list-style-type:disc">

Coffee

Tea

Milk

Try the code and draw the output here.

Example - Circle

<ul style="list-style-type:circle">
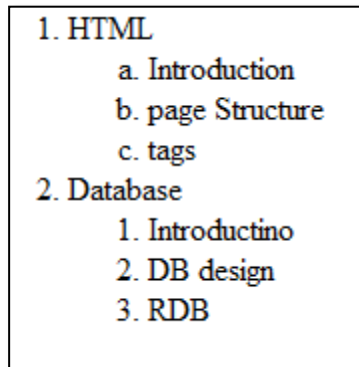
Coffee

Tea

Milk

Try the code and draw the output here.

Example - None

<ul style="list-style-type:none">

Coffee

Tea

Milk

Try the code and draw the output here.

Nested List: is a list within a list.

Example1:

Solution for the above Example.

```
<ol>
       <li> HTML
              <ol type="a">
                     <li>Introduction</li>
                     <li>page Structure</li>
                     <li>tags</li>
              </ol>
       </li>
       <li> Database
              <ol>
                     <li>Introductino</li>
                     <li>DB design</li>
                     <li>RDB</li>
              </ol>


       </li>
</ol>
```

Example2:

A Nested List
 	
    • Coffee
    • Tea
        ○ Black tea
        ○ Green tea
    • Milk
	`<h2>A Nested List</h2>`
	
	`<ul>`
	`  <li>Coffee</li>`
	`  <li>Tea`
	`    <ul  type="circle">`
	
	`  <li>Black tea</li>`
	`      <li>Green tea</li>`
	`    </ul>`
	`  </li>`
	`  <li>Milk</li>`
	`</ul>`

Important note:

If you put two unordered list nested, determine the type of each one because the default style will be changed as shown in the next example:

Example3.

```
<ul>
    <li> HTML
        <ul >
            <li>Introduction
                <ul>
                    <li>HTML Tags</li>
                    <li>CSS</li>
                    <li>PHP</li>
                </ul>
            </li>
            <li>page Structure</li>
            <li>tags</li>
        </ul>
    </li>

    <li> SQL</li>
</ul>
```


• HTML
    ○ Introduction
        ■ HTML Tags
        ■ CSS
        ■ PHP
    ○ page Structure
    ○ tags
• SQL

HTML Horizontal Line Attributes:

<hr> element is used to separate content (or define a change) in an **HTML** page.

An hr element must have a start tag but must not have an end tag.

<hr size="30" width="300" color="red" align="center">

• Size: the height of the line(vertically)
• width: the width (horizontally) of the line
• align: can be: center/right/left