Front End Technologies – Day 4

Agenda

- **Table's contd…**
- **Lists**
- **Hyperlink**

Tables Contd…

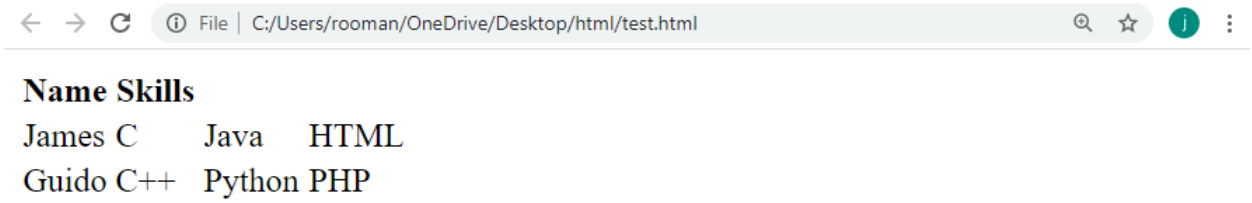
We are aware of how to represent a data in tabular format. Now let us take various scenarios and try to create different forms of tables

Example: Create a table in the following format

Name		**Skills**	
James	C	Java	HTML
Guido	C++	Python	PHP

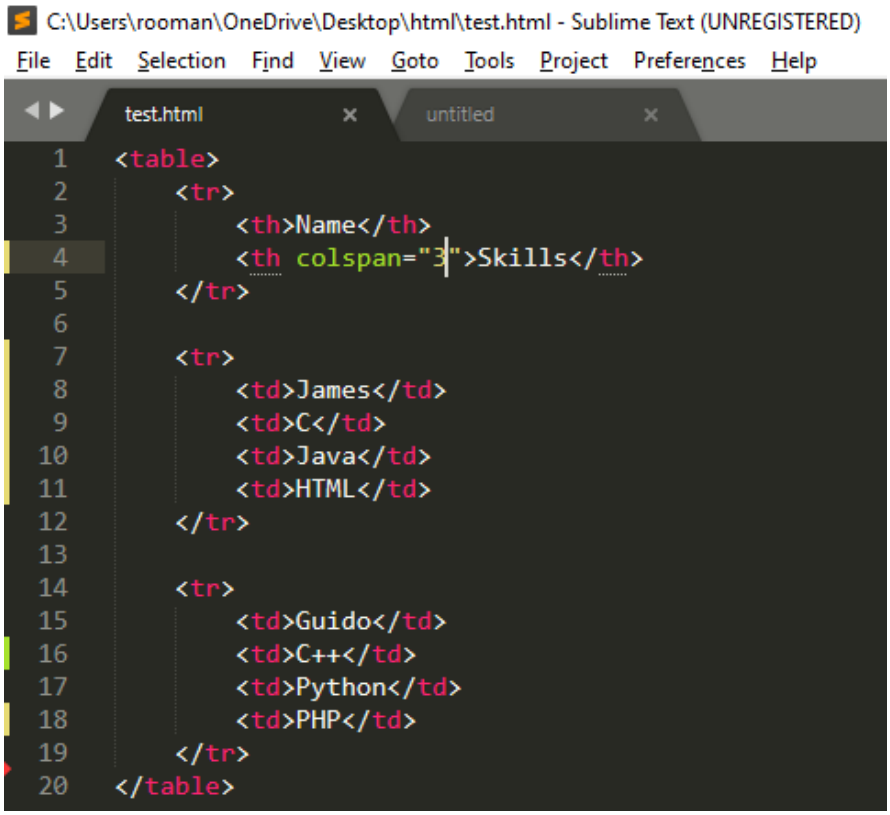
We can see the above format, where "**Skills**" is the combined heading for three columns. Let us see how to get the above mentioned table and the respective tags to be used

Output:

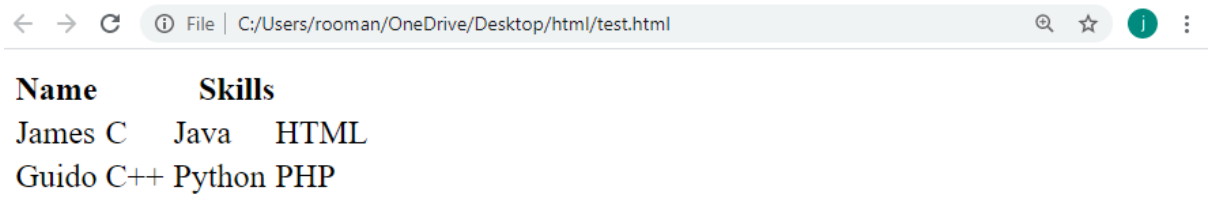


Certainly we are missing the key point of heading, i.e. column span of "**Skills**" is 3 (1-3). By adding the respective tag attribute **colspan** we can get the desired format.

The **colspan** attribute defines the number of columns a cell should span.



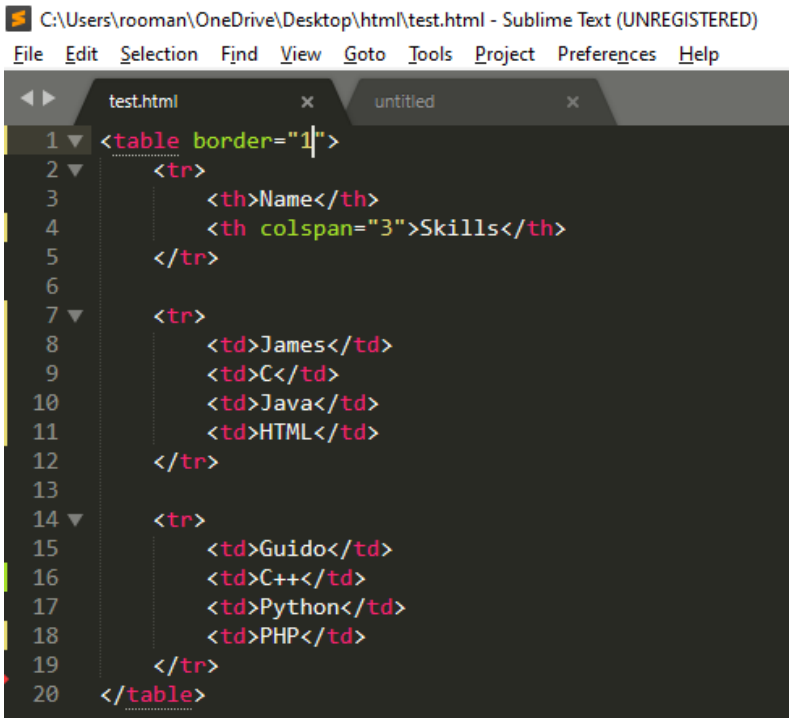
Output:



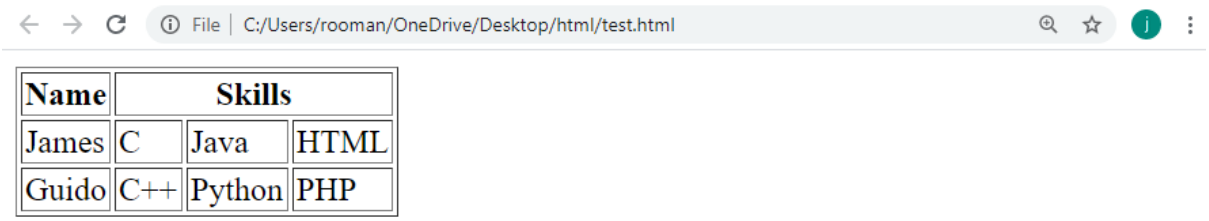
Now we have the table as expected. By adding the respective **colspan** tag attribute.

Example: Represent the same table with borders.

Name	Skills		
James	C	Java	HTML
Guido	C++	Python	PHP



Output:



Name	Skills		
James	C	Java	HTML
Guido	C++	Python	PHP

We can definitely change the thickness of border by changing the values. You can give a try

Example: Create the table in following format

Name	Companies
James	Sun Microsystems
	Oracle
	Liquid Robotics
Guido	Google
	Dropbox
	Microsoft

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test.html untitled

```
<table border="2">
    <tr>
        <th>Name</th>
        <th>Companies</th>
    </tr>
    <tr>
        <td rowspan="3">James</td>
        <td>Sun Microsystems</td>
    </tr>
    <tr>
        <td>Oracle</td>
    </tr>
    <tr>
        <td>Liquid Robotics</td>
    </tr>

    <tr>
        <td rowspan="3">Guido</td>
        <td>Google</td>
    </tr>
    <tr>
        <td>Dropbox</td>
    </tr>
    <tr>
        <td>Microsoft</td>
    </tr>
</table>
```

Output:

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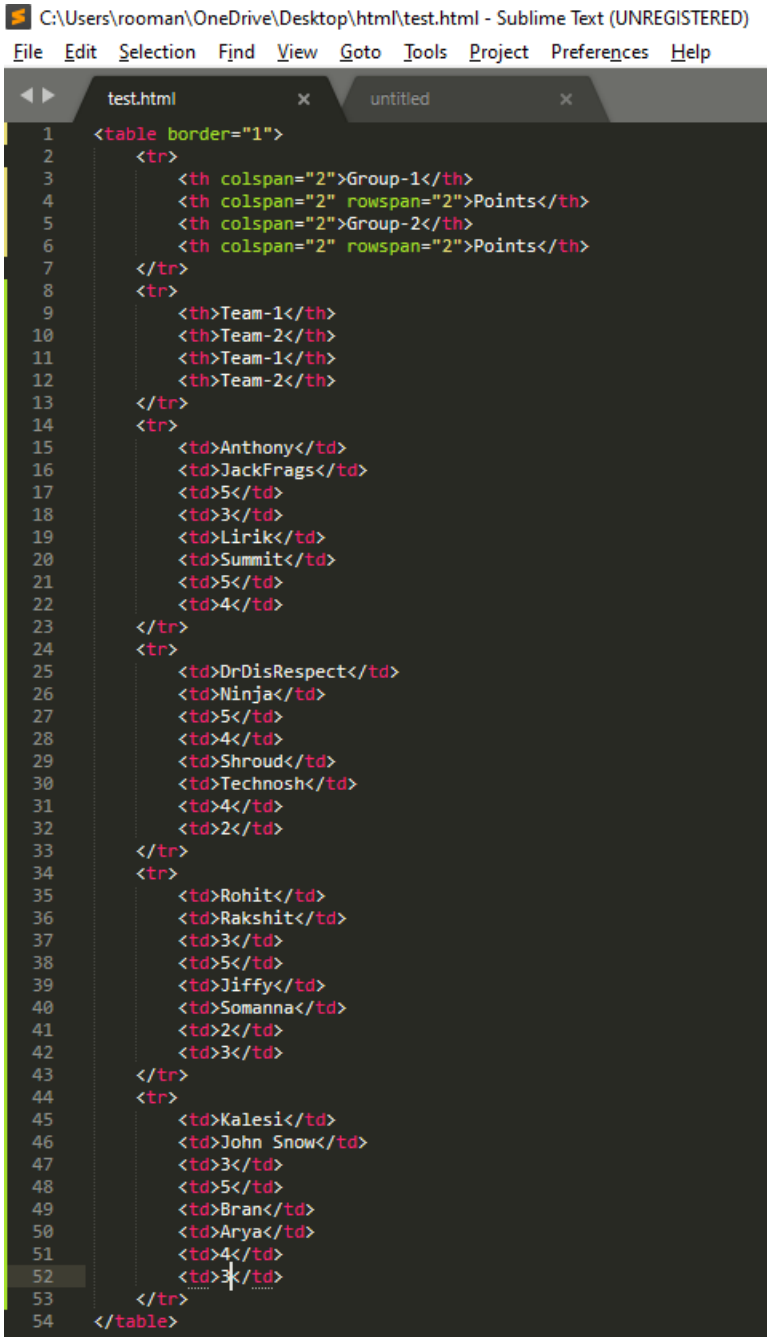
Name	Companies
James	Sun Microsystems
	Oracle
	Liquid Robotics
Guido	Google
	Dropbox
	Microsoft

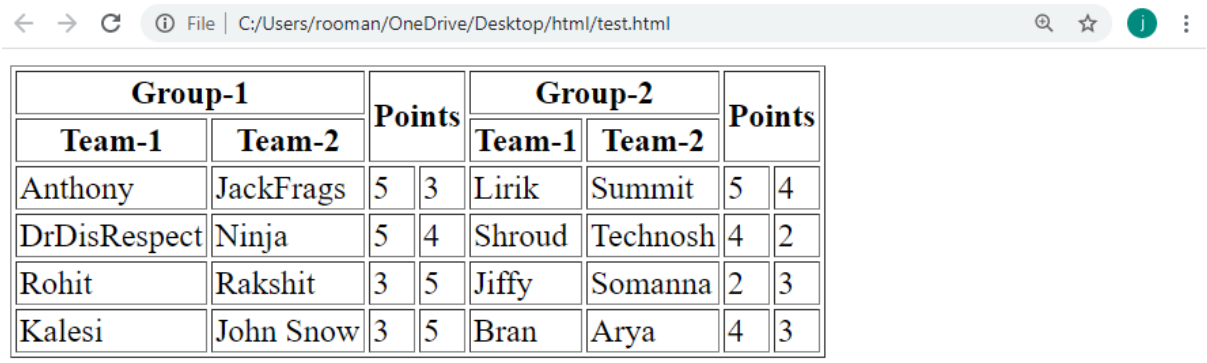
The **rowspan** attribute specifies the number of rows a cell should span. The **rowspan** attribute can be used on the following elements: <td> and <th>

Example: Create a table with following format which includes both rowspan and colspan

Group-1		Points		Group-2		Points	
Team-1	**Team-2**			**Team-1**	**Team-2**		
Anthony	JackFrags	5	5	Lirik	Summit	5	4
DrDisRespect	Ninja	5	4	Shroud	Technosh	4	2
Rohit	Rakshit	3	5	Jiffy	Somanna	2	3
Kalesi	John Snow	3	5	Bran	Arya	4	3



Output:



Group-1		Points		Group-2		Points	
Team-1	Team-2			Team-1	Team-2		
Anthony	JackFrags	5	3	Lirik	Summit	5	4
DrDisRespect	Ninja	5	4	Shroud	Technosh	4	2
Rohit	Rakshit	3	5	Jiffy	Somanna	2	3
Kalesi	John Snow	3	5	Bran	Arya	4	3

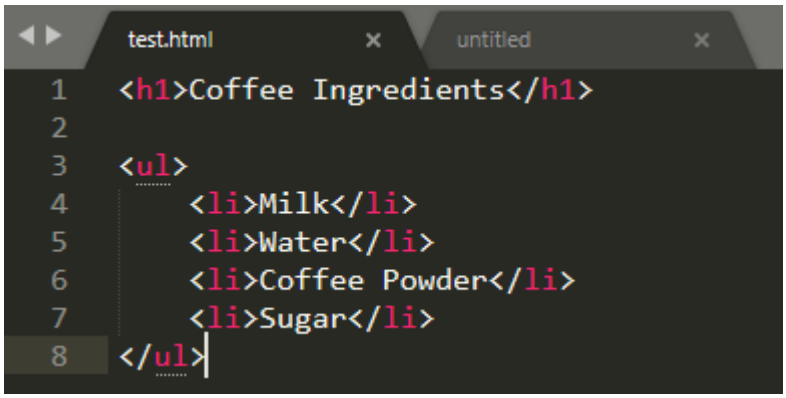
Lists

In HTML we also have list type of data representation. HTML lists are used to present list of information in well-formed and semantic way. There are three different types of list in HTML and each one has a specific purpose and meaning.

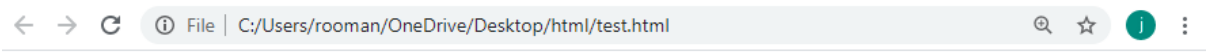
- **Unordered list** - Used to create a list of related items, in no particular order.
- **Ordered list** - Used to create a list of related items, in a specific order.
- **Definition list** – HTML also supports description lists. A description list is a list of terms, with a description of each term.

Let us explore each type of lists by taking the following examples

Example: List out the ingredients of coffee (order of ingredients does not matter)



Output:



Coffee Ingredients

- Milk
- Water
- Coffee Powder
- Sugar

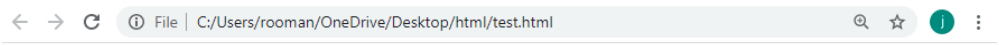
As we can see from the above output, order does not matter the items to prepare coffee can be in any order, but the steps to prepare matter.

Example: Step by step procedure to prepare coffee.

```
<h1>Coffee Ingredients</h1>
<ul>
    <li>Milk</li>
    <li>Water</li>
    <li>Coffee Powder</li>
    <li>Sugar</li>
</ul>

<h2>Steps to prepare Coffee</h2>
<ol>
    <li>Heat milk</li>
    <li>Add coffee powder</li>
    <li>Add sugar</li>
    <li>Add water if required</li>
</ol>
```

Output:



Coffee Ingredients

- Milk
- Water
- Coffee Powder
- Sugar

Steps to prepare Coffee

1. Heat milk
2. Add coffee powder
3. Add sugar
4. Add water if required

 - Defines an unordered list.

 - Defines a list item.

 - Defines an ordered list.

Example: Create a list of few Web Development terminologies and their definition.

```
test.html                                   untitled
1   <h1>Common web development terminologies</h1>
2
3   <dl>
4       <dt>WWW</dt>
5       <dd>The World Wide Web(WWW) is combination of all the
        resources and users on the internet that are using the Hyper
        Text Transfer Protocol(HTTP).</dd>
6
7       <dt>HTML</dt>
8       <dd>HTML stands for Hyper Text Markup Language. HTML is the
        standard markup language for creating web pages</dd>
9
10      <dt>CSS</dt>
11      <dd>Stands for "Cascading Style Sheet". Cascading style
        sheets are used to format the layout of Web pages</dd>
12  </dl>
```

Output:

<dl> - Defines a description list.

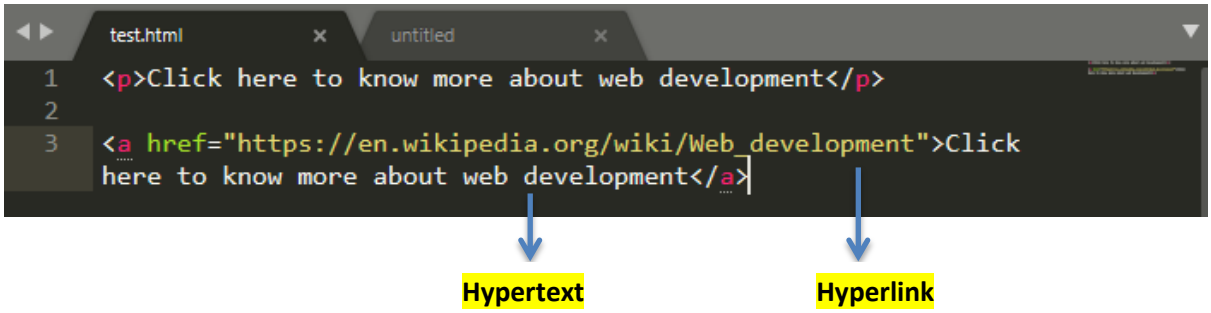
<dt> - Defines a term/name in a description list.

<dd> - Defines a description/value of a term in a description list.

Hyperlink

Links are found in nearly all web pages. Links allow users to click their way from page to page. In every webpage there are certain words or section of content which on clicked on to directs you to a website. These are called the hypertext. Hypertext is a text which contains link to other texts. These texts are given links. Let us consider an example and get more clarity

Example: To create a hypertext and link to website



Output:

Certainly after clicking on to the hypertext, it will redirect to the link provided.

<a> - Defines a Hyperlink.

Example: To create a hypermedia

```
test.html                                    untitled
1  <h3>Click on the image to know more about Rooman</h3>
2
3  <a href="https://rooman.net/"><img src="rooman.jpg"></a>
```

Output:

Certainly the image is linked to the respective website you can try by yourself and cross verify.

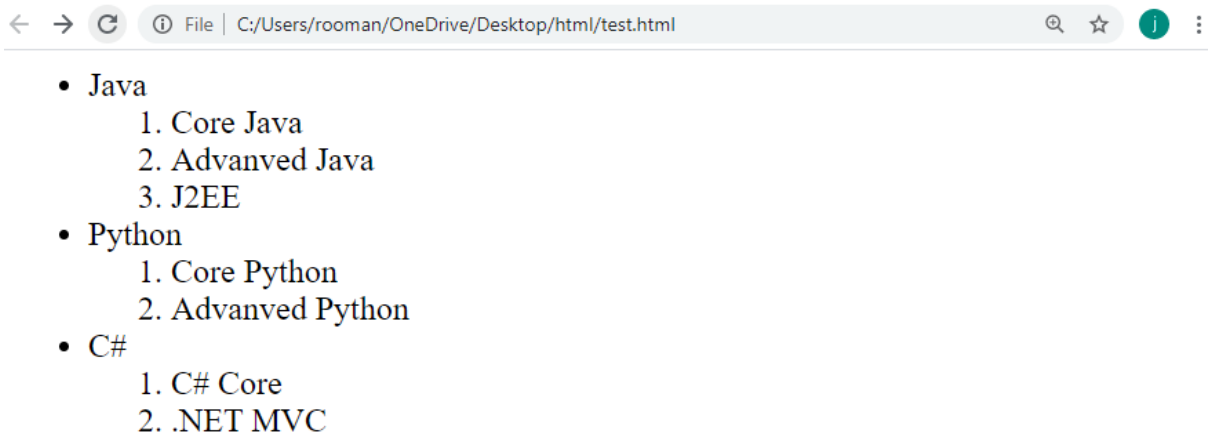
Example: Create the following table

- Java
  1. Core Java
  2. Advanced Java
  3. J2EE
- Python
  1. Core Python
  2. Advanced Python
- C#
  1. C# Core
  2. .NET MVC

test.html untitled

```
<ul>
    <li>Java</li>
    <ol>
        <li>Core Java</li>
        <li>Advanved Java</li>
        <li>J2EE</li>
    </ol>
    <li>Python</li>
    <ol>
        <li>Core Python</li>
        <li>Advanved Python</li>
    </ol>
    <li>C#</li>
    <ol>
        <li>C# Core</li>
        <li>.NET MVC</li>
    </ol>
</ul>
```

Output:



- Java
    1. Core Java
    2. Advanved Java
    3. J2EE
- Python
    1. Core Python
    2. Advanved Python
- C#
    1. C# Core
    2. .NET MVC

Great! We now know how to create various types of list data.