CEGEP VANIER COLLEGE
CENTRE FOR CONTINUING EDUCATION
Web Programming
420-999-VA

Teacher: Samir Chebbine   **Lab 1**   **Jun 28, 2022**

Lab 1: Introduction to HTML

Complete all these following HTML scripts as explained in my **Lab 1 YouTube Video 1.** All *missing HTML coding* are presented in this YouTube video with explanation.

1. **Developing a Web Page:**

    HTML stands for Hypertext Markup Language.
    "**Hypertext** is a method of organization in which information is not presented linearly, but in whatever order requested by the user.
    Markup Language is a language that describes the content and structure of a document."[1]

    HTML documents have **htm** or **html** as an extension such as student.htm or student.html. We gonna use Notepad++ to edit HTML documents.

    HTML document contains Markings Elements with Tags with the following format:
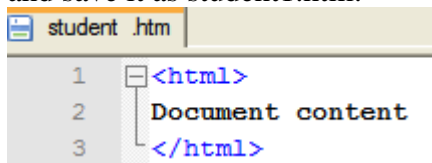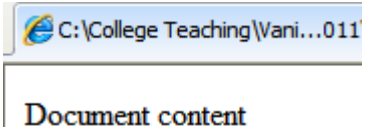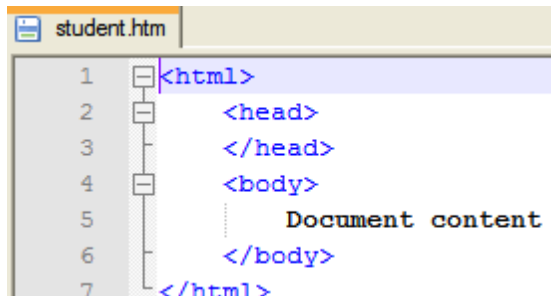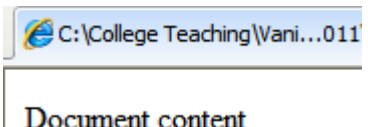   **<*element*>**content**</*element*>** where:

    element is the name of the element, and *content* is any content contained within the element
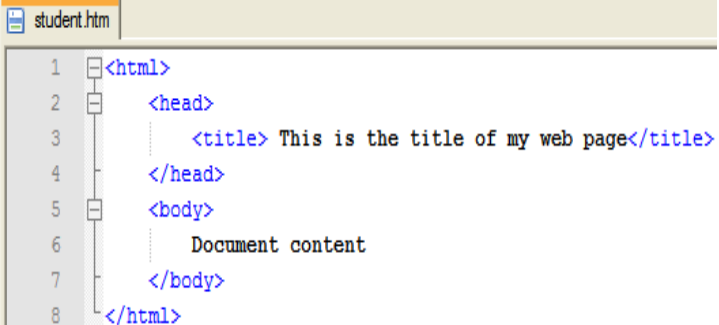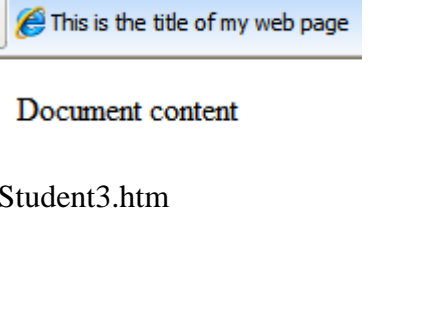   *< element> is called the opening tag*
    </element> is called the closing tag

    The structure of an HTML document:

HTML Code	Preview
Create the first HTML document, type the following and save it as student1.htm: 	
Add the following code: student2.htm 	

---
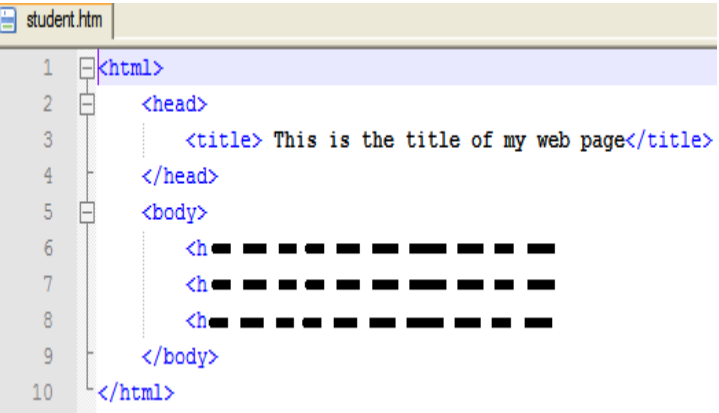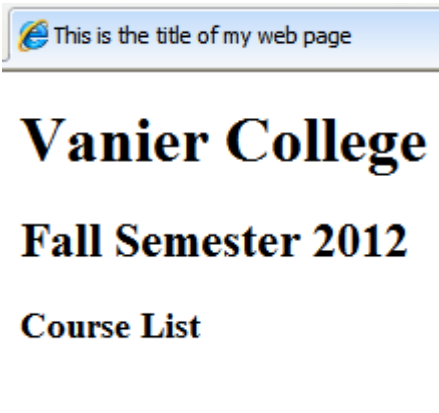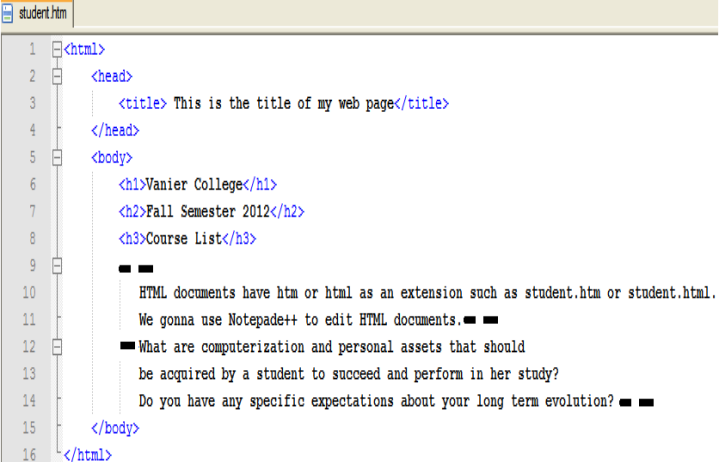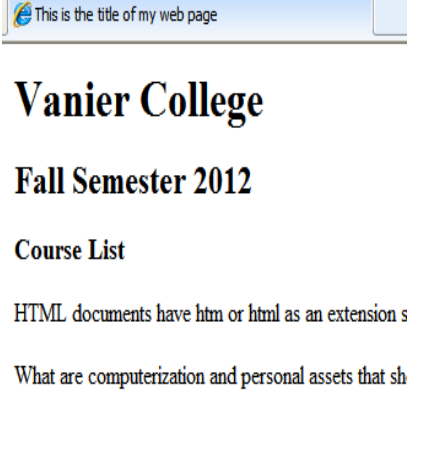
[1] *New Perspectives on HTML and XHTML, 5th Edition, Comprehensive Course Technology, 2009*

Student3.htm

2. Working with Block-Level Elements:

a) Working with Heading:

a) To mark a heading, enter
<hn>content</hn>
b) To mark a paragraph, enter
<p>content</p>
c) To mark a block quote, enter
<blockquote>content</blockquote>
d) To mark generic block level, enter
<div>content</div>

HTML Code	Preview
On the same file student.htm, type the following HTML code: 	

```
student.htm
1  <html>
2      <head>
3          <title> This is the title of my web page</title>
4      </head>
5      <body>
6          <h1>Vanier College</h1>
7          <h2>Fall Semester 2012</h2>
8          <h3>Course List</h3>
9          <p>
10             HTML documents have htm or html as an extension such as student.htm or student.html.
11             We gonna use Notepade++ to edit HTML documents.</p>
12         <p>What are computerization and personal assets that should
13             be acquired by a student to succeed and perform in her study?
14             Do you have any specific expectations about your long term evolution? </p>
15         ▬ ▬ ▬ ▬ ▬ ▬ ▬
16             <p>I am very excited to be student at Vanier College.</p>
17             <p>The environment is so stimulating for maximizing the learning. Adam Smith.</p>
18         ▬ ▬ ▬ ▬ ▬ ▬ ▬
19     </body>
20  </html>
```

This is the title of my web page | Page ▼ Safety

Vanier College

Fall Semester 2012

Course List

HTML documents have htm or html as an extension such as student.htm or student.html. We gonna use Notepade++ to edit HTML documents.

What are computerization and personal assets that should be acquired by a student to succeed and perform in her study? Do you have any specific expectations about your long term evolution?

I am very excited to be student at Vanier College.

The environment is so stimulating for maximizing the learning. Adam Smith.
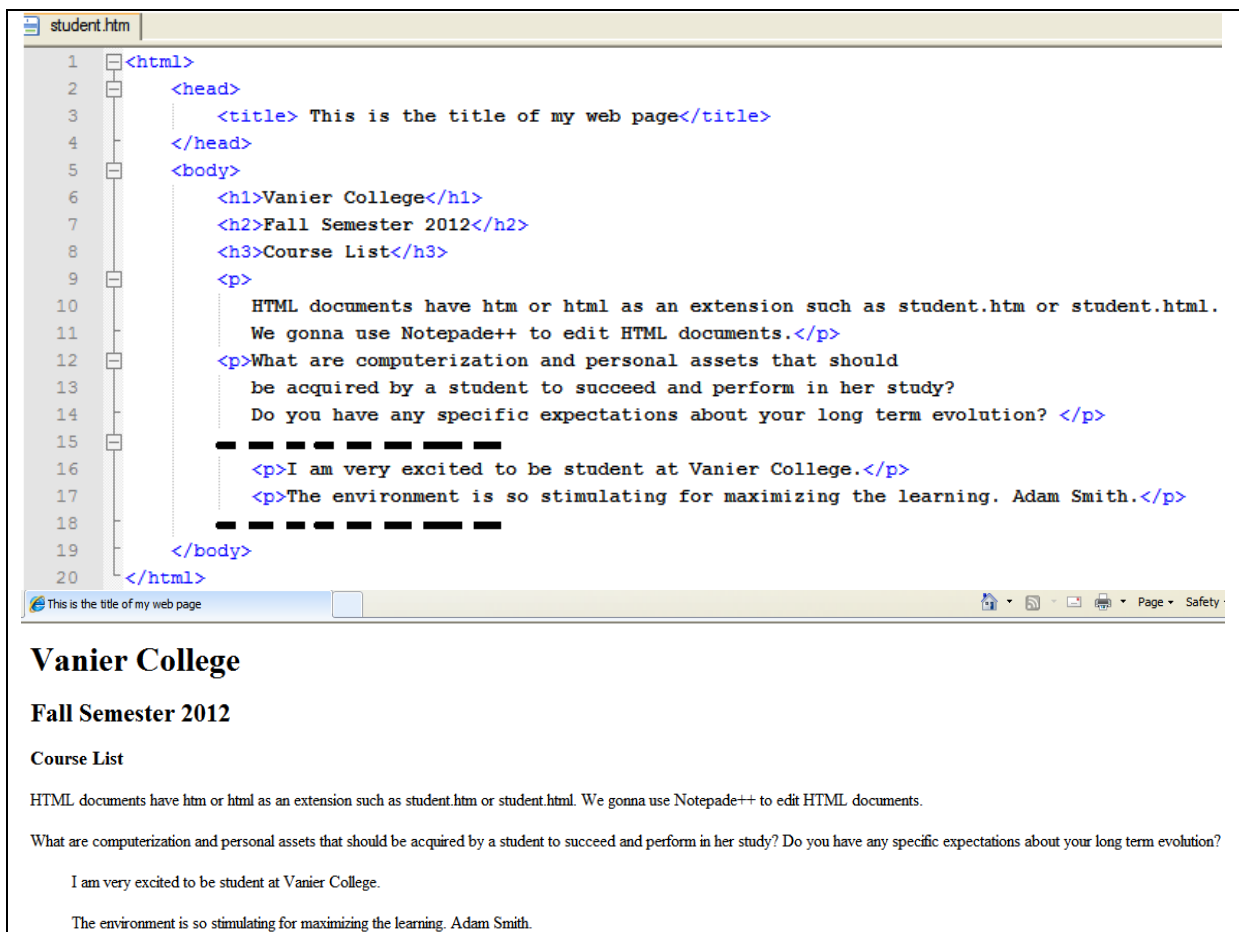
3. **Managing a List:**

    a) Ordered List, enter
```
<ol>
    <li>First Item</li>
    <li>Second Item</li>
    <li>Third Item</li>
</ol>
```
    b) Unordered List, enter
```
<ul>
    <li>First Item</li>
    <li>Second Item</li>
    <li>Third Item</li>
</ul>
```
    c) Nesting List, enter
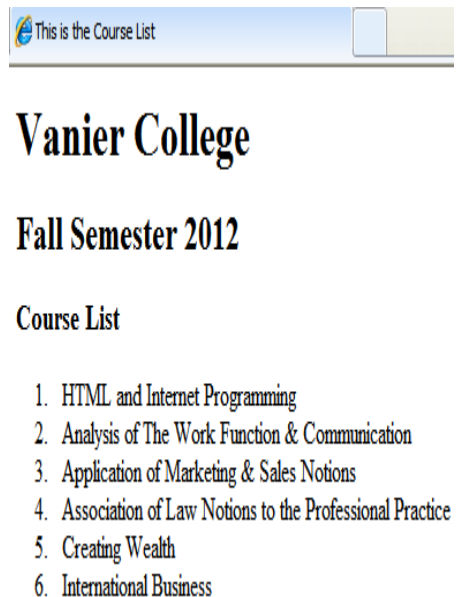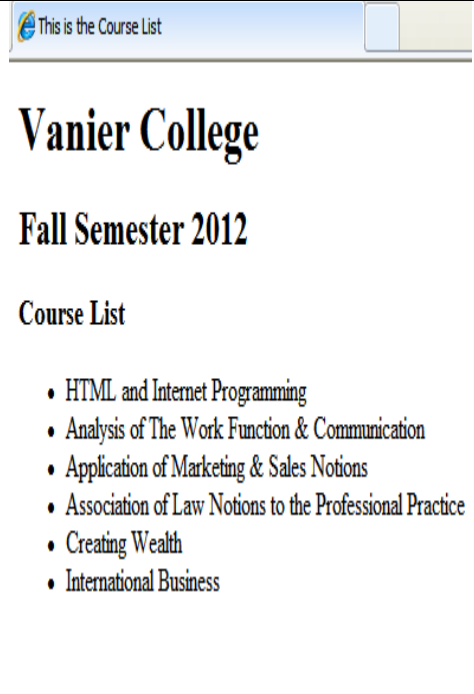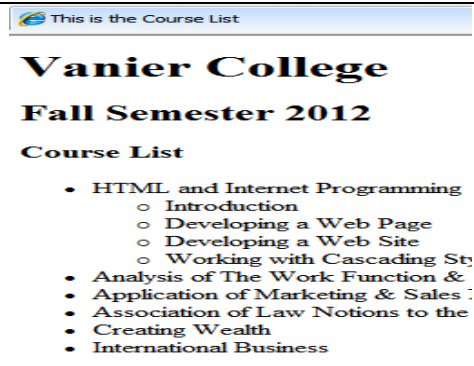```

    First Item

        First Item Premium
        Second Item Silver
        Third Item Bronze

    Second Item
    Third Item

```
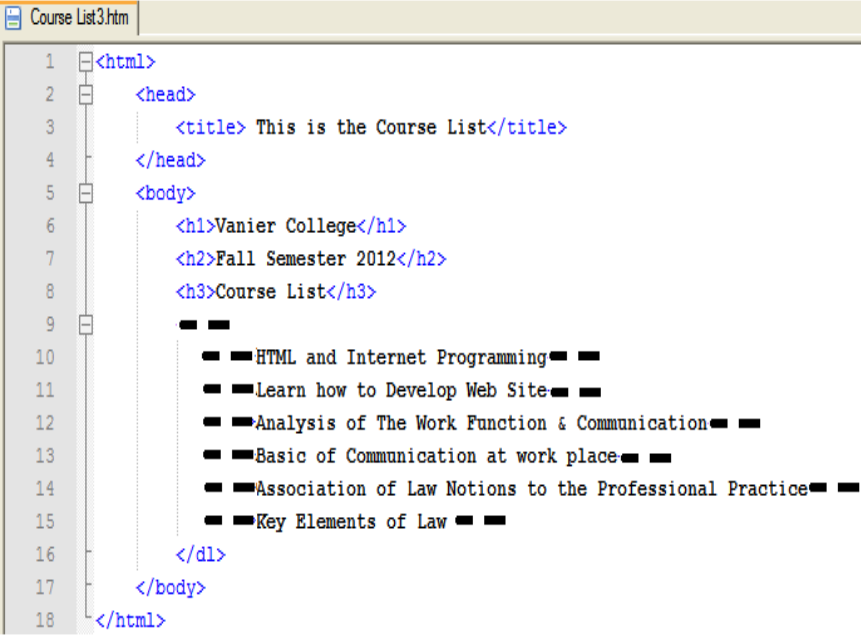
| HTML Code | Preview |
|---|---|
| Create a new file CourseList.htm, type the following HTML code: | |

```html
<html>
    <head>
        <title> This is the Course List</title>
    </head>
    <body>
        <h1>Vanier College</h1>
        <h2>Fall Semester 2012</h2>
        <h3>Course List</h3>
        <ol>
            <li>HTML and Internet Programming</li>
            <li>Analysis of The Work Function & Communication</li>
            <li>Application of Marketing & Sales Notions</li>
            <li>Association of Law Notions to the Professional Practice</li>
            <li>Creating Wealth</li>
            <li>International Business</li>
        </ol>
    </body>
</html>
```

Preview:

This is the Course List

Vanier College

Fall Semester 2012

Course List

1. HTML and Internet Programming
2. Analysis of The Work Function & Communication
3. Application of Marketing & Sales Notions
4. Association of Law Notions to the Professional Practice
5. Creating Wealth
6. International Business

Create a new file CourseList1.htm, type the following HTML code:

```html
<html>
    <head>
        <title> This is the Course List</title>
    </head>
    <body>
        <h1>Vanier College</h1>
        <h2>Fall Semester 2012</h2>
        <h3>Course List</h3>
        <ul>
            <li>HTML and Internet Programming</li>
            <li>Analysis of The Work Function & Communication</li>
            <li>Application of Marketing & Sales Notions</li>
            <li>Association of Law Notions to the Professional Practice</li>
            <li>Creating Wealth</li>
            <li>International Business</li>
        </ul>
    </body>
</html>
```

Preview:

This is the Course List

Vanier College

Fall Semester 2012

Course List

- HTML and Internet Programming
- Analysis of The Work Function & Communication
- Application of Marketing & Sales Notions
- Association of Law Notions to the Professional Practice
- Creating Wealth
- International Business

Create a new file CourseList2.htm

```html
<ul>
    <li>HTML and Internet Programming</li>
    <ul>
        <li>Introduction</li>
        <li>Developing a Web Page</li>
        <li>Developing a Web Site</li>
        <li>Working with Cascading Style Sheets</li>
    </ul>
    <li>Analysis of The Work Function & Communication</li>
```

Preview:

This is the Course List

Vanier College

Fall Semester 2012

Course List

- HTML and Internet Programming
    - Introduction
    - Developing a Web Page
    - Developing a Web Site
    - Working with Cascading Sty
- Analysis of The Work Function &
- Application of Marketing & Sales
- Association of Law Notions to the
- Creating Wealth
- International Business

d) Definition Lists, enter
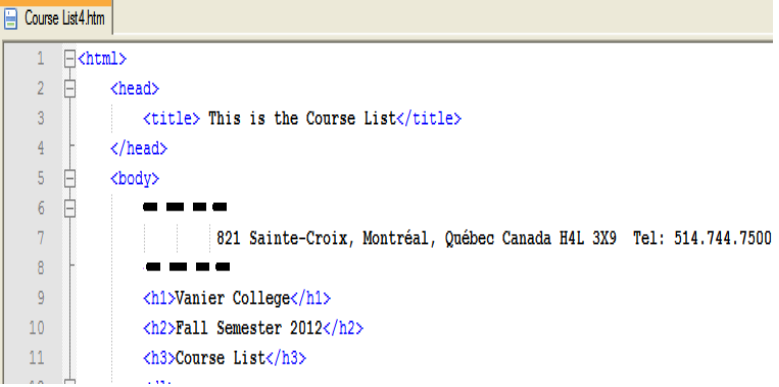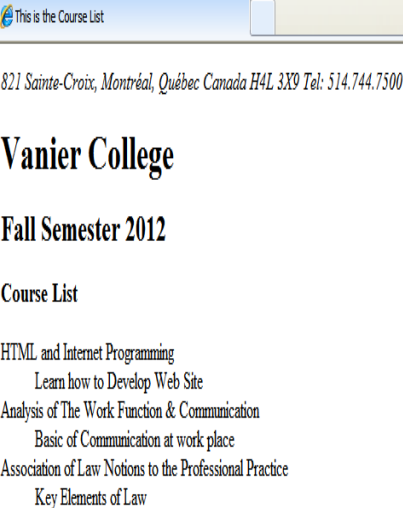
```
<dl>
        <dt>First Item</dt>
        <dd> Description of First Item</dd>
        <dt>Second Item</dt>
        <dd>Description of Second Item</dd>
        <dt>Third Item</dt>
        <dd> Description of third Item </dd>
</dl>
```

HTML Code	Preview

Create a new file CourseList3.htm
 	
 Course List3.htm
 	
 ``html
<html>
    <head>
        <title> This is the Course List</title>
    </head>
    <body>
         Vanier College
         Fall Semester 2012
         Course List
        <dl>
            <dt>HTML and Internet Programming<dd>
            <dd>Learn how to Develop Web Site<dt>
            <dt>Analysis of The Work Function & Communication<dd>
            <dd>Basic of Communication at work place<dt>
            <dt>Association of Law Notions to the Professional Practice<dd>
            <dd>Key Elements of Law<dt>
        </dl>
    </body>
</html>
``
	Vanier College
	
	 Fall Semester 2012
	
	 Course List
	
	 HTML and Internet Programming
	     Learn how to Develop Web Site
	 Analysis of The Work Function & Communication
	     Basic of Communication at work place
	 Association of Law Notions to the Professional Practice
	     Key Elements of Law

4. Exploring Other Block-Level Elements:

It is possible to insert contact information like address within your web pages using <address> tag

HTML Code	Preview

Create a new file CourseList4.htm
 	
 Course List4.htm
 	
 ``html
<html>
    <head>
        <title> This is the Course List</title>
    </head>
    <body>
        <address>
            821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 Tel: 514.744.7500
        </address>
         Vanier College
         Fall Semester 2012
         Course List
``
	821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 Tel: 514.744.7500
	
	 Vanier College
	
	 Fall Semester 2012
	
	 Course List
	
	 HTML and Internet Programming
	     Learn how to Develop Web Site
	 Analysis of The Work Function & Communication
	     Basic of Communication at work place
	 Association of Law Notions to the Professional Practice
	     Key Elements of Law

5. Working with Inline Elements:

It is possible to insert an inline element which marks a section of text within a block-level element.

Create a new file CourseList5.htm


```html
<html>
    <head>
        <title> This is the Course List</title>
    </head>
    <body>
        <address>
                821 Sainte-Croix, Montréal, Québec Canada H4L 3X9
        </address>
        <h1>Vanier College</h1>
        <h2>Fall Semester 2012</h2>
        <h3>Course List</h3>
        <dl>
            <dt>HTML and             Programming</dt>
            <dd>Learn how to Develop Web Site</dd>
            <dt>Analysis of The Work Function & Communication</dt>
            <dd>Basic of Communication at work place</dd>
            <dt>Association of Law Notions to the Professional Practice</dt>
            <dd>Key Elements of Law </dd>
        </dl>
    </body>
</html>
```

821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 **Tel: 514.744.7500**

In Bold

Vanier College

Fall Semester 2012

Course List

HTML and *Internet* Programming   *In Italic*
     Learn how to Develop Web Site

6. Using Element Attributes:

It is possible to associate attributes to a given element such as
<element attribute1="value1" attribute2="value2" …>content</element>

- Style Attribute: `<h1 style ="color: red">Vanier College</h1>`


```html
<html>
    <head>
        <title> This is the Course List</title>
    </head>
    <body>
        <address>
                821 Sainte-Croix, Montréal, Québec Canada H4
        </address>
        <h1
        <h2
```

821 Sainte-Croix, Montréal, Québec

Vanier College

Fall Semester 2012

- Style Attribute: `<h3 align ="center">Course List</h3>`

7. Working with Empty Elements:

- **\<br /\>** forces the browser to insert a line break before rendering the next line of text.
- **\<hr /\>** places a horizontal line across the Web Page.
- **Inserting an inline image**

```
Course List 7.htm
1   <html>
2       <head>
3           <title> This is the Course List</title>
4       </head>
5       <body>
6           <address>
7                   821 Sainte-Croix, Montréal, Québec Canada H4L 3X9  <b>Tel: 514.744.7500</b>
8           </address>
9           ▬ ▬ ▬ ▬ ▬ ▬
10          <!-- or
11              ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬
12          -->
13          <h1 style ="color: red">Vanier College</h1>
14          <h2 style ="color: green">Fall Semester 2012</h2>
15          <h3 align ="center">Course List</h3>
16          <hr />
17          <dl>
18              <dt>HTML and <i>Internet</i> Programming</dt>
19              <dd>Learn how to Develop Web Site</dd>
20              <dt>Analysis of The Work Function & Communication</dt>
21              <dd>Basic of Communication at work place</dd>
22              <dt>Association of Law Notions to the Professional Practice</dt>
23              <dd>Key Elements of Law </dd>
24          </dl>
25          <p>▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬ ▬</p>
26      </body>
27   </html>
```

This is the Course List

821 Sainte-Croix, Montréal, Québec Canada H4L 3X9 **Tel: 514.744.7500**

VANIER
CÉGEP/COLLEGE

Vanier College

Fall Semester 2012

Course List

HTML and *Internet* Programming
        Learn how to Develop Web Site
Analysis of The Work Function & Communication
        Basic of Communication at work place
Association of Law Notions to the Professional Practice
        Key Elements of Law

© Copy Right issue , The \<p\> is used to indicate a new paragraph

- **Working with character Set and special characters**

  You would enter the numeric character reference of a given symbol to display on the browser. For example:

  The © symbol in your web page, you would enter &#169
  The < and > symbols are referenced by the **<** and **>** respectively

- All HTML documents must start with a <!DOCTYPE> declaration.

  The declaration is not an HTML element, but an "indication" to the browser in order to process the web page according to HTML 5 processing rules.

  In HTML 5, write the following at the beginning before html tag:

  <!DOCTYPE html>

8. **Using your own wording, answer the following questions briefly:**

   1. What are the HTML elements for *nested* ordered list within another ordered list? Write the general structure.
   2. What is the block level element, give an example of block level element?
   3. What is the in-line level element, give an example of in-line level element?
   4. Is it possible to nest unordered list HTML element ul within ordered list HTML element ol?
   5. What is the difference between element (tag) and attribute in HTML? give an example of each one of them.
   6. Write the HTML coding for two images displayed in different lines.
   7. Write the HTML coding to display the following sentences in color:

      Welcome to Vanier College

      _____

      Learning *Oracle PL/SQL* is **cool**,

      Programming in *Java* is **fun**,

      Mastering *HTLM coding* is **bliss**.
      _____

      Notes: <!- -Vanier in red, College in Blue, cool, fun and bliss are bold, insert horizontal lines too, *Oracle PL/SQL, Java, HTML coding* in italic - - >

   8. True or false and why:
      a. HTML is an interpreter language.
      b. HTML page is executed on the web server.
      c. HTML page is stored in the client side.
      d. You *should* indent HTML opening tag and closing tag to display the web page.
      e. The HTML title element is included within head element.
      f. Attributes are mandatory in every HTML element.
      g. HTML element "address" is block-level element.