

Lesson – 1

Hyper Text Markup Language (H.T.M.L)

What is HTML?

HTML is a language used for describing web pages.

- HTML stands for **Hyper Text Markup Language**.
- HTML is not a programming language, it is a **markup language**.
- A markup language is a set of **markup tags**.
- The markup tags describe how text should be **displayed**.

HTML Markup Tags

HTML markup tags are usually called HTML tags.

- HTML Tags are keywords surrounded by **angle bracket** like <html>.
- HTML Tags normally **come in pairs** like and .
- HTML first tag in a pair is the **start tag**, the second tag is the **end tag**.

What is an HTML File?

- An HTML file is a **text file with HTML tags**.
- An HTML file name must end with **.htm** or **.html**
- An HTML file is can be created using a **simple text editor**
- An HTML file is often called an **HTML document** or a **Web Page**.

Writing HTML

In this tutorial we use a plain text editor (like Notepad) to edit HTML. This is a good way to learn HTML.

HTML Output- (Useful Tips)

You cannot be sure exactly how HTML will be displayed. Large screens, small screens, and resized browser windows will create different results.

With HTML, you cannot change the output by adding extra spaces or extra lines in your HTML code.

The browser will remove extra spaces and extra lines when the page is displayed. Any numbers of lines count as one space, and any number of spaces count as one space.

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Basic HTML Tags

If you look up the basic HTML tags in the reference below, you will see that the reference contains additional information about tag attributes.

You will learn more about HTML tag attributes in the next chapter of this tutorial.

Tag	Description
<u><html></u>	Define an HTML document
<u><body></u>	Define the document's body
<u><h1> to <h6></u>	Define header 1 to header 6
<u><p></u>	Define a paragraph
<u>
</u>	Inserts a single line break
<u><hr></u>	Define a horizontal rule

A very basic HTML document

This example has a minimum of HTML tags. It demonstrates how HTML is displayed in a browser.

HTML Headings

Headings are defined with <h1> to <h6> tags. <h1> defines the largest heading. <h6> define the smallest heading.

```
<h1> this is a heading </h1>  
<h2> this is a heading </h2>  
<h3> this is a heading </h3>
```

HTML Paragraphs

Paragraph is defined with the <p> tag.

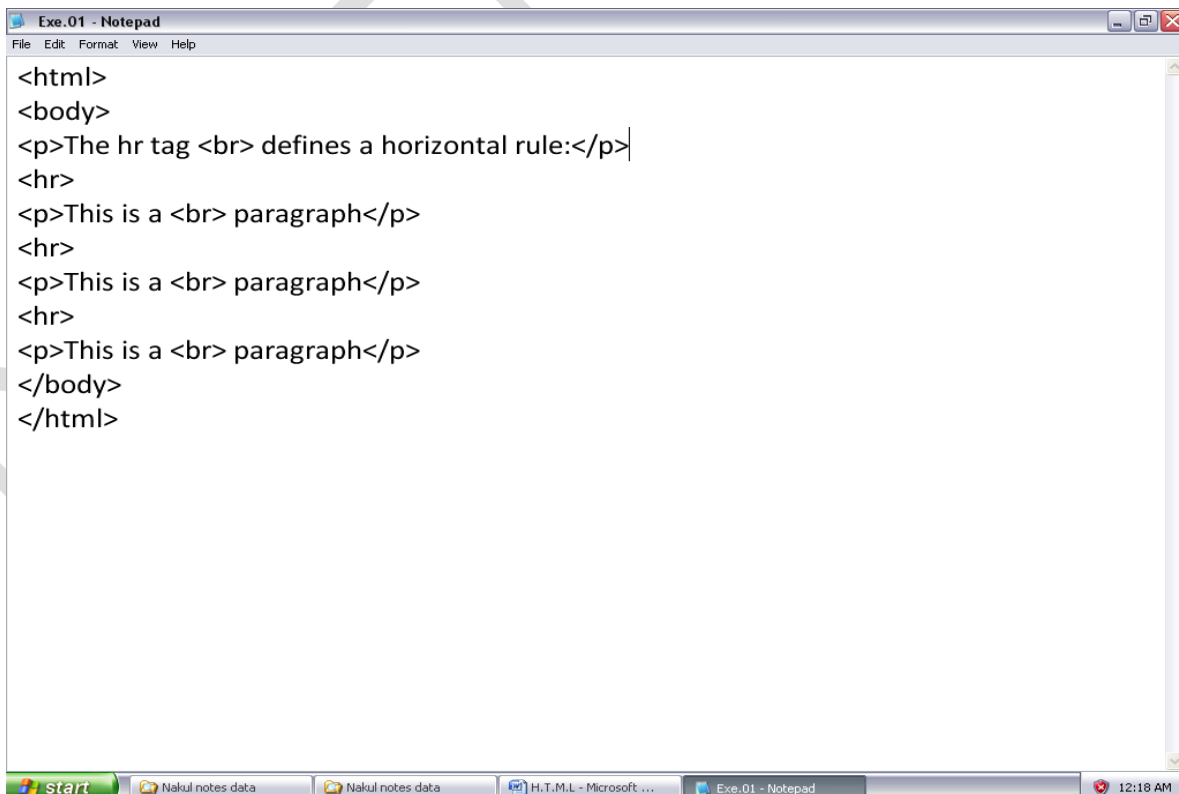
```
<p> This is a paragraph </p>  
<p> This is another paragraph </p>
```

HTML Line Breaks

Use the
 tag if you want a line break (a new line) without starting a new paragraph.

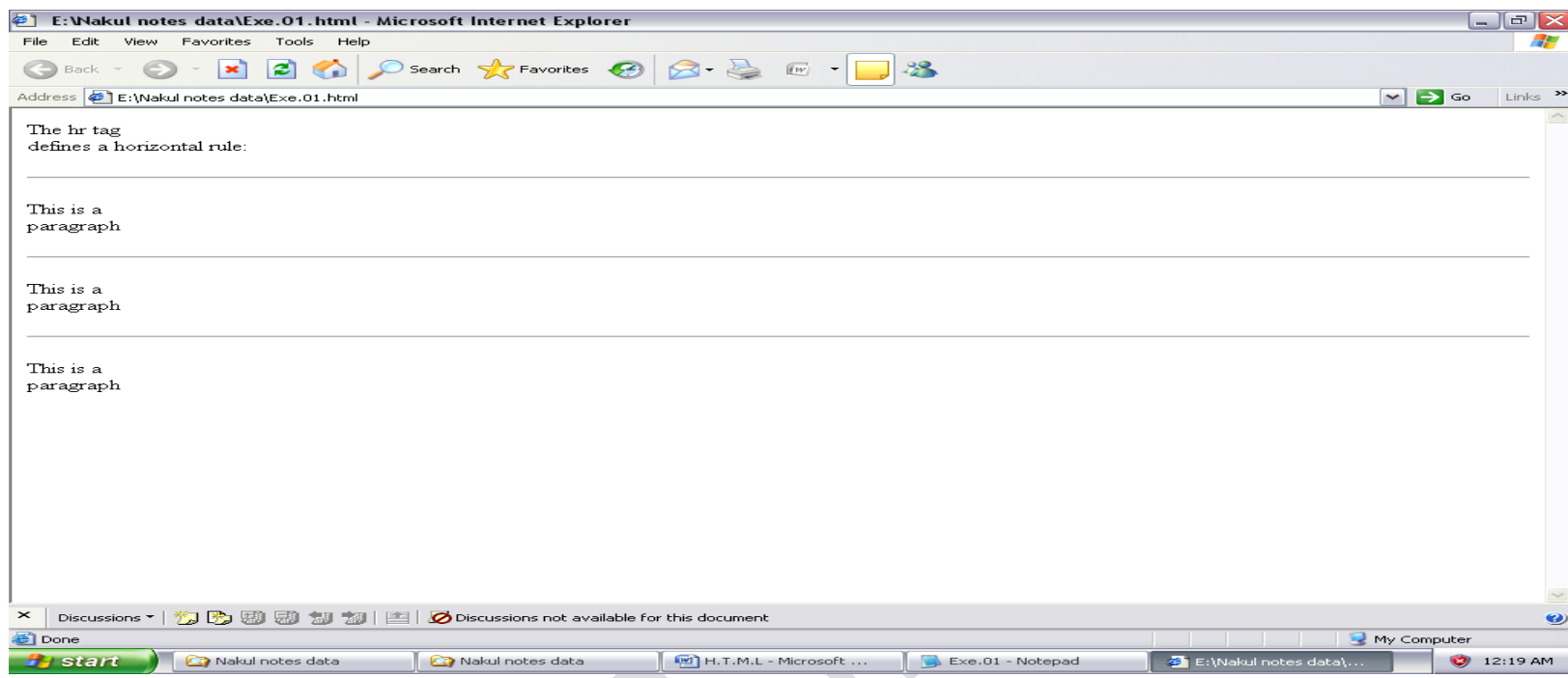
```
<p> This is <br> a para <br> graph with line breaks </p>
```

Example of: Break
 & Horizontal Line <hr> tag in “Notepad” like as:-



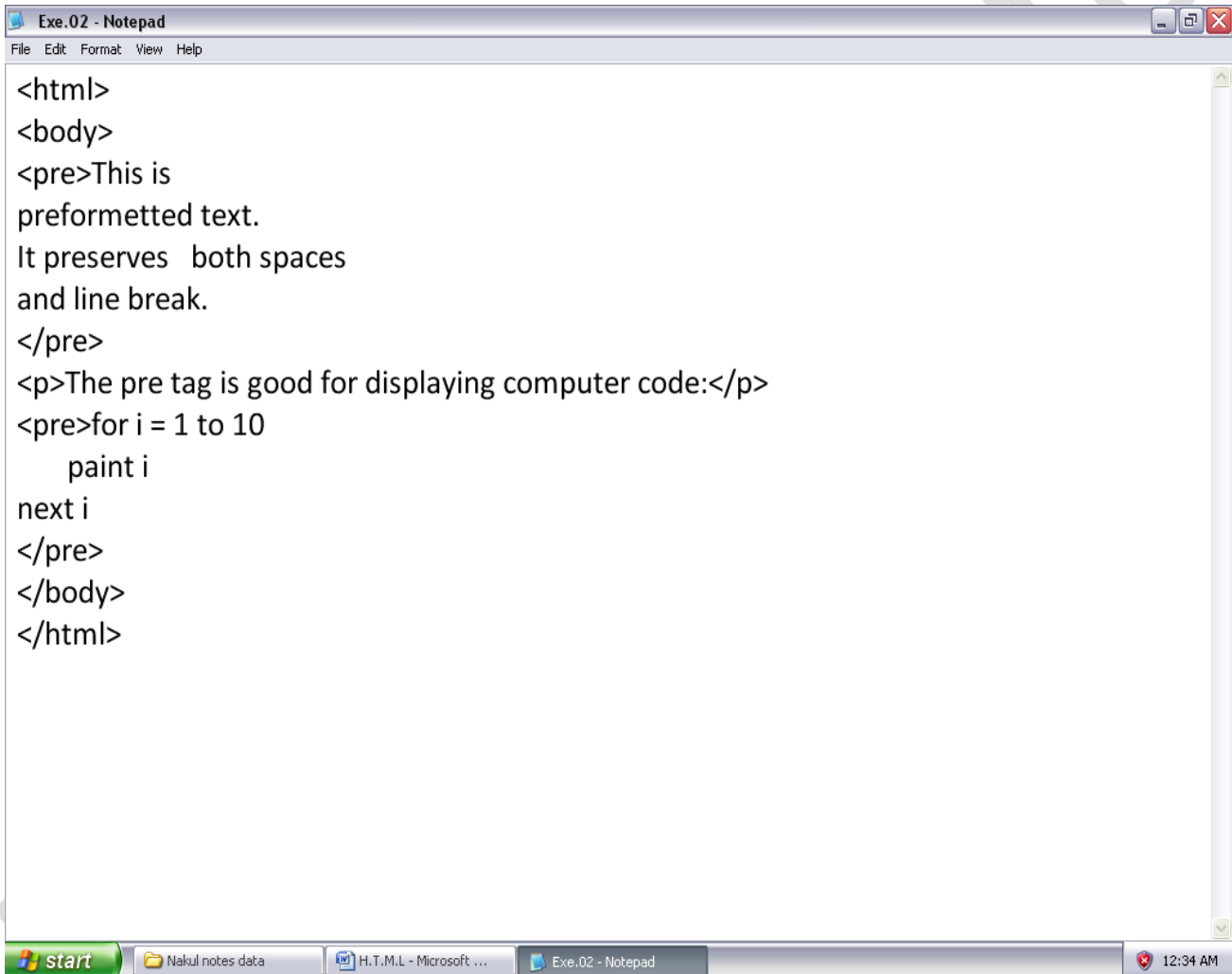
```
Exe.01 - Notepad  
File Edit Format View Help  
<html>  
<body>  
<p>The hr tag <br> defines a horizontal rule:</p>  
<hr>  
<p>This is a <br> paragraph</p>  
<hr>  
<p>This is a <br> paragraph</p>  
<hr>  
<p>This is a <br> paragraph</p>  
</body>  
</html>
```

Results in:- “Internet Explorer” like as:-



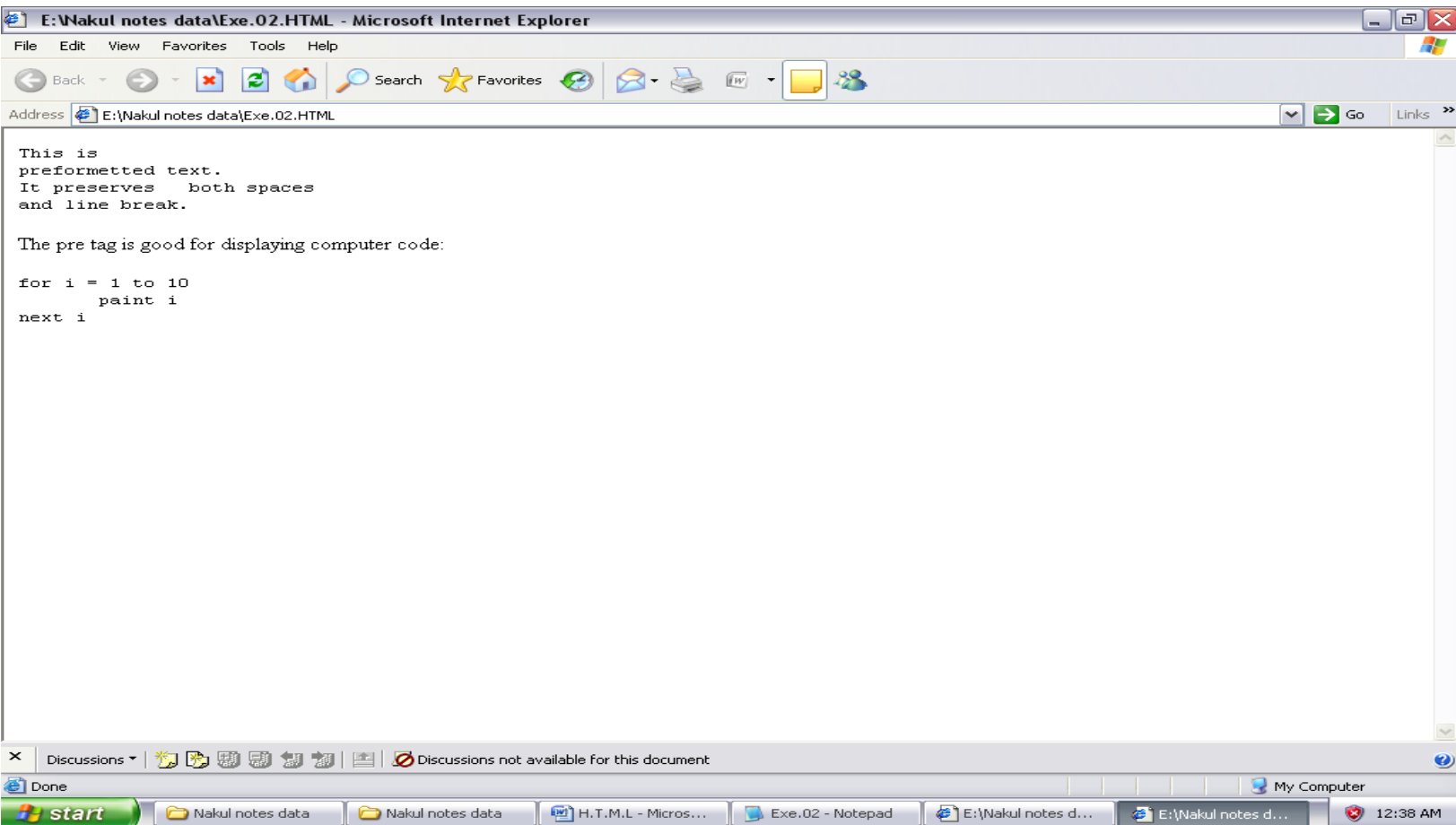
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Example of: Pre- formatted text <pre> tag in “Notepad” like as:-



```
<html>
<body>
<pre>This is
preformatted text.
It preserves  both spaces
and line break.
</pre>
<p>The pre tag is good for displaying computer code:</p>
<pre>for i = 1 to 10
  print i
next i
</pre>
</body>
</html>
```

Results in:- “Internet Explorer” like as:-



Example of: Text Effects in HTML like as:-

```
<html>
<body>
<b>This Text is bold</b><br/>
<strong>THiis text is storng</strong><br/>
<big>This text is big</big><br/>
<em>This text is emphasized</em><br/>
<i>This text is Italic</i><br/>
<small>This text is small</small><br/>
<tt>This text is teletype</tt><br/>
This text contains
<sub>subscript</sub><br/>
This text contains
<sup>Superscripts</sup><br/>

</Body>
</html>
```

Results in: Browser like as:-

This Text is bold
THiis text is storng
This text is big
This text is emphasized
This text is Italic
This text is small
This text is teletype
This text contains subscript
This text contains Superscripts

Example of: Center Tag in HTML” like as:-

```
<html>
<body>

<h1 align="center"> Dot-Net Computer Institute Example</h1>
<p align="right">Align Example</p>

</Body>
</html>
```

Results in:- “Internet Explorer” like as:-

Dot-Net Computer Institute Example

Align Example

Example of: A Definition List in HTML” like as:-

```
<html>
<body>

<h4>A Defination List</h4>
<dl>
    <dt>Coffee</dt>
    <dd>Black Hot Coffee</dd>
    <dt>Milk</dt>
    <dd>white Cold Drink</dd>
</dl>

</Body>
</html>
```

Results in:- “Internet Explorer” like as:-

A Defination List

Coffee

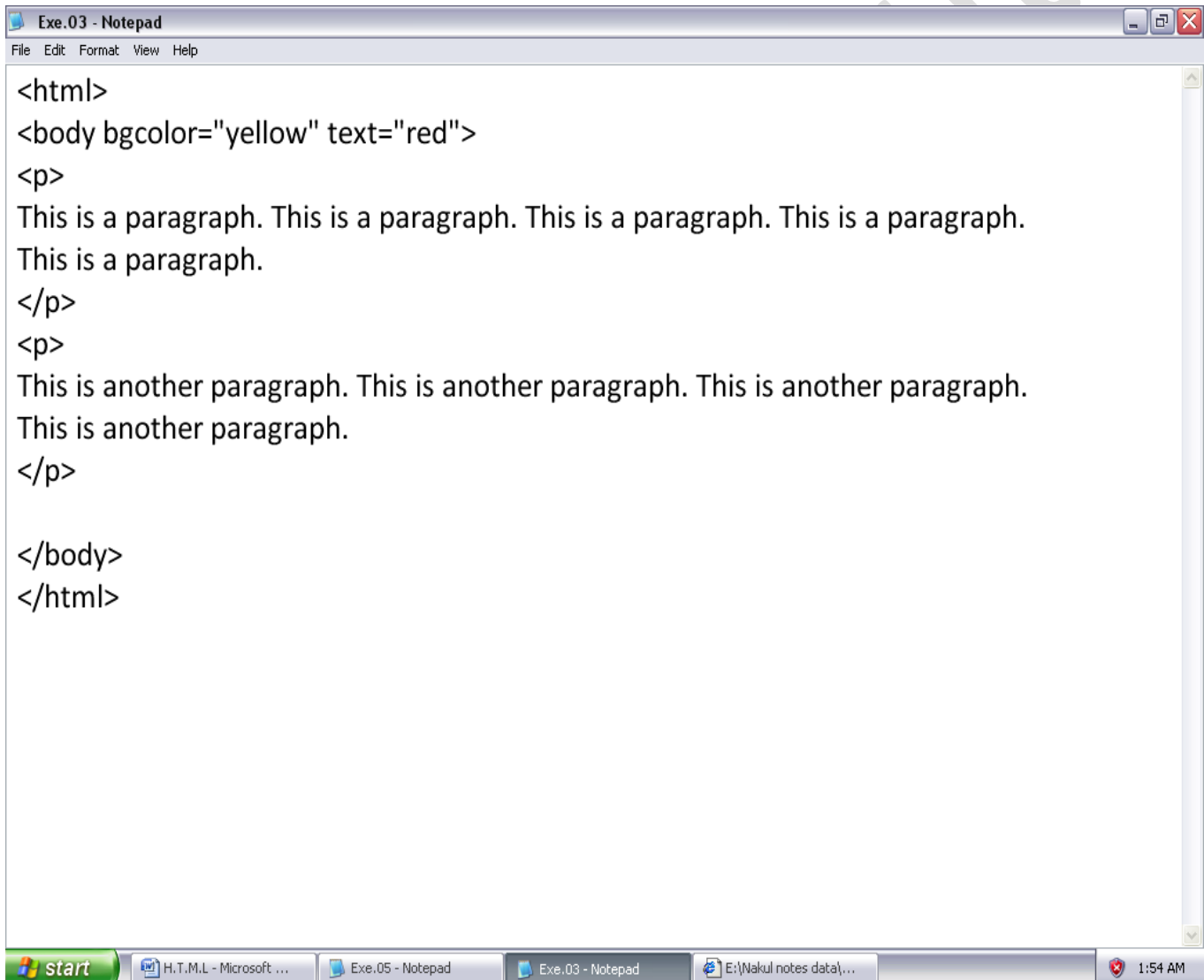
Black Hot Coffee

Milk

White Cold Drink

Lesson – 4

Example of:- Background color (bg color) in Notepad
Like as:-



```
<html>
<body bgcolor="yellow" text="red">
<p>
This is a paragraph. This is a paragraph. This is a paragraph. This is a paragraph.
This is a paragraph.
</p>
<p>
This is another paragraph. This is another paragraph. This is another paragraph.
This is another paragraph.
</p>

</body>
</html>
```

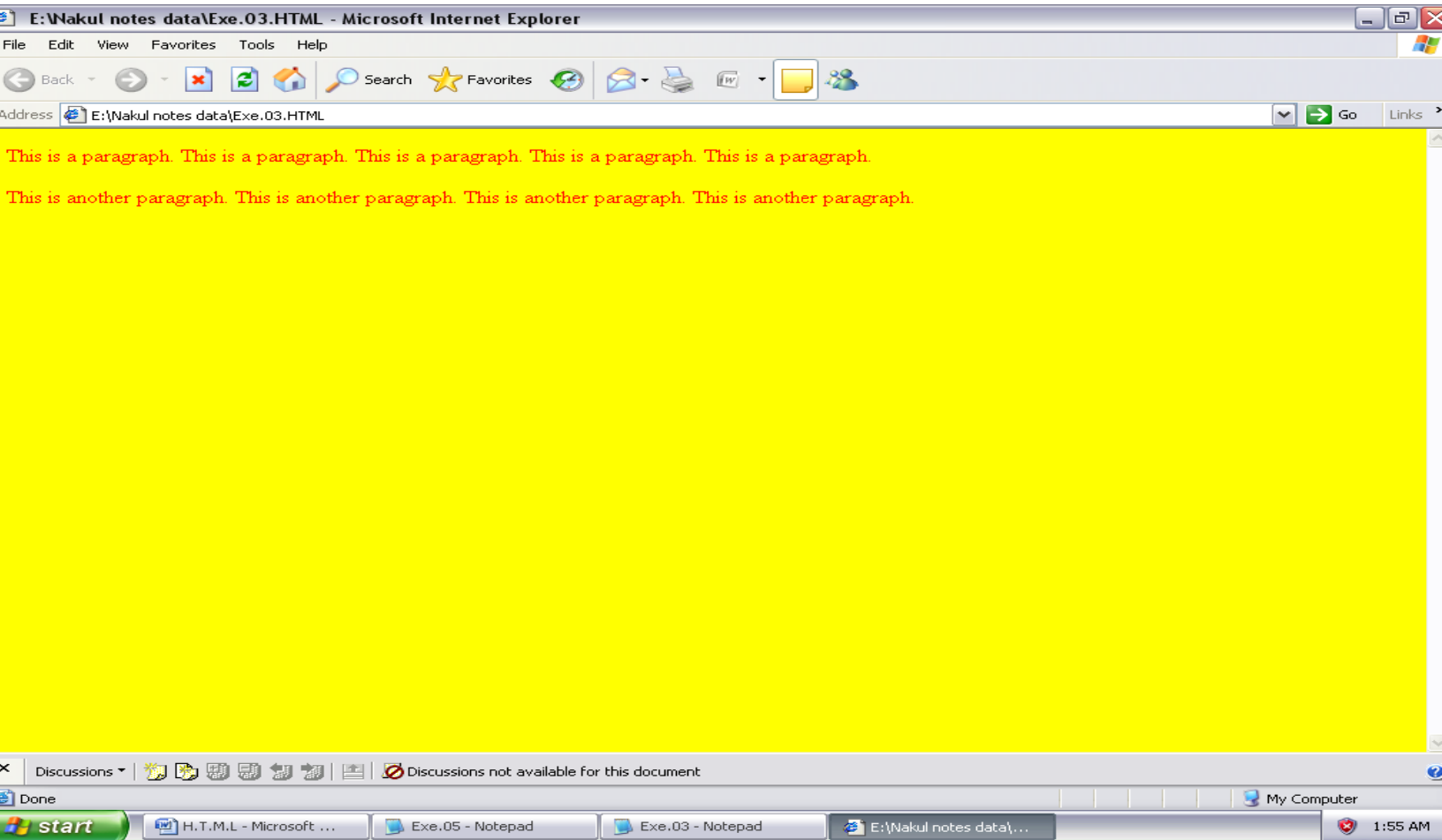
The screenshot shows a Windows Notepad window titled "Exe.03 - Notepad". The window contains the following HTML code:

```
<html>
<body bgcolor="yellow" text="red">
<p>
This is a paragraph. This is a paragraph. This is a paragraph. This is a paragraph.
This is a paragraph.
</p>
<p>
This is another paragraph. This is another paragraph. This is another paragraph.
This is another paragraph.
</p>

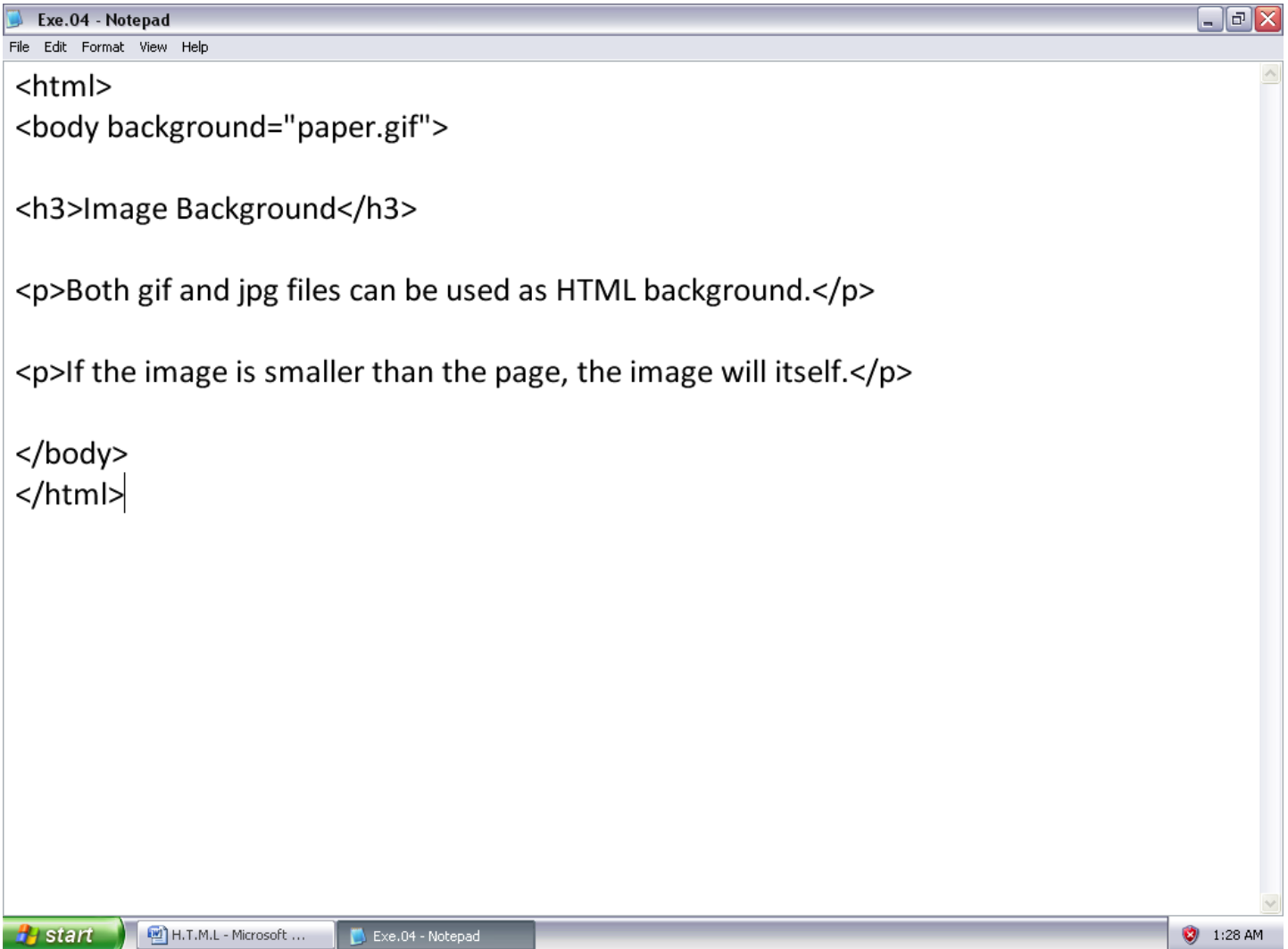
</body>
</html>
```

The taskbar at the bottom shows the Start button and several open applications: "H.T.M.L - Microsoft ...", "Exe.05 - Notepad", "Exe.03 - Notepad", and "E:\Nakul notes data\...". The system clock shows 1:54 AM.

Results in:- “Internet Explorer” like as:-



Example of: Background image <body background> tag in “Notepad” like as:-



```
<html>
<body background="paper.gif">

<h3>Image Background</h3>

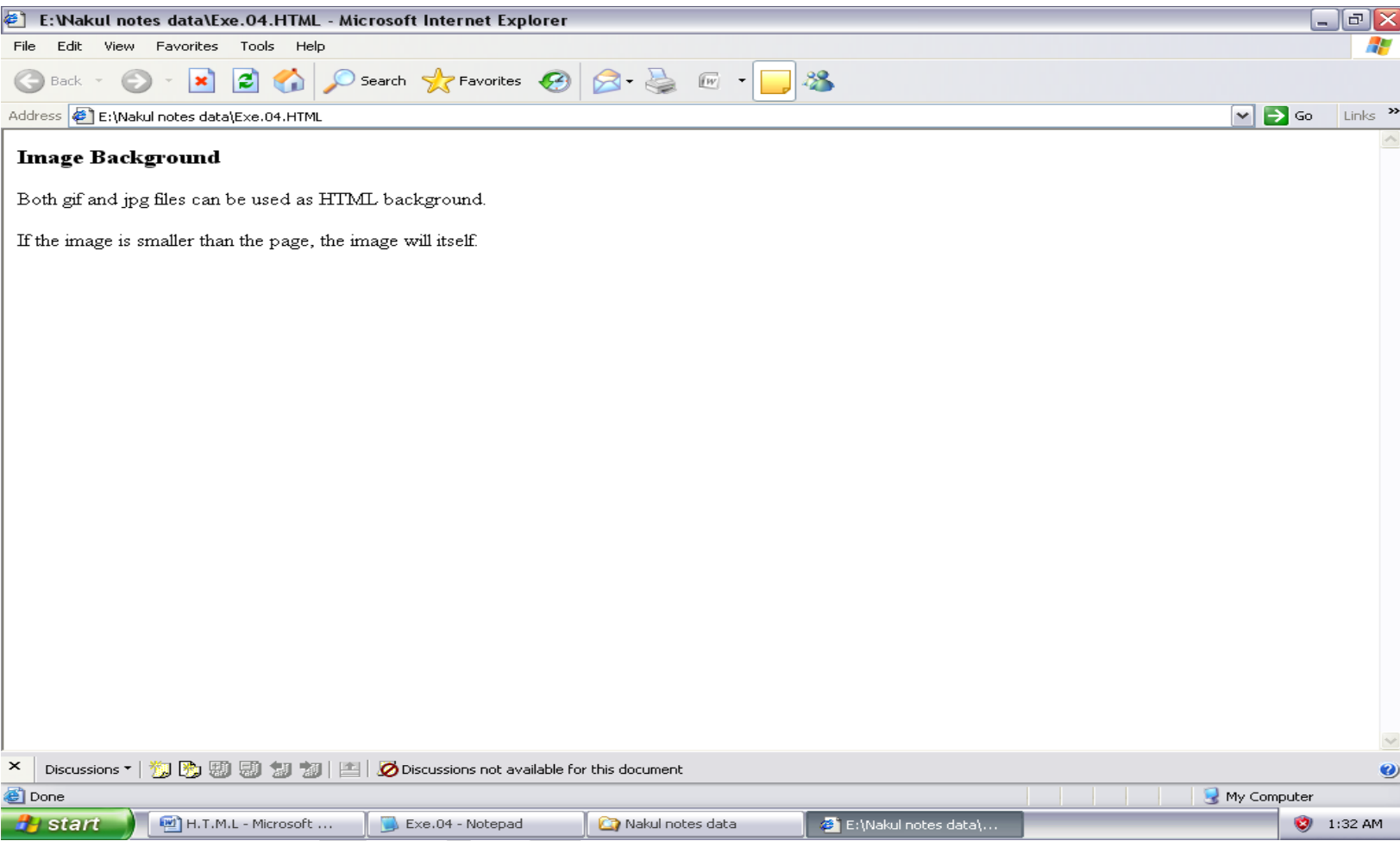
<p>Both gif and jpg files can be used as HTML background.</p>

<p>If the image is smaller than the page, the image will itself.</p>

</body>
</html>
```

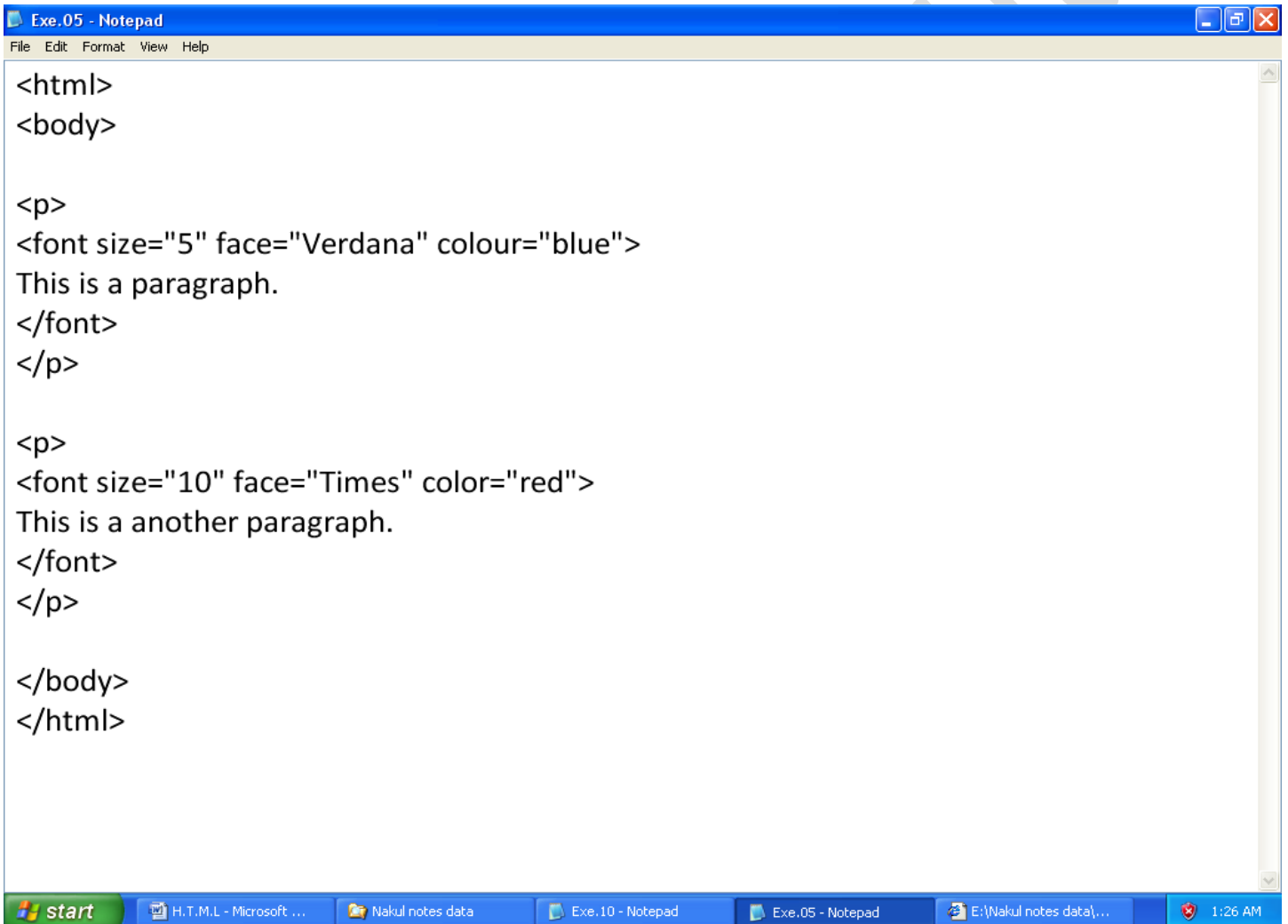
The screenshot shows a Notepad window titled "Exe.04 - Notepad" with a menu bar (File, Edit, Format, View, Help). The text area contains the following HTML code: `<html>`, `<body background="paper.gif">`, `<h3>Image Background</h3>`, `<p>Both gif and jpg files can be used as HTML background.</p>`, `<p>If the image is smaller than the page, the image will itself.</p>`, `</body>`, and `</html>`. The Windows taskbar at the bottom shows the Start button, two open windows (H.T.M.L - Microsoft ... and Exe.04 - Notepad), and the system tray with the time 1:28 AM.

Results in:- “Internet Explore” like as:-



Lesson – 5

Example of: Font Size, Font Face & Font Color tag in “Notepad” like as:-



```
<html>
<body>

<p>
<font size="5" face="Verdana" colour="blue">
This is a paragraph.
</font>
</p>

<p>
<font size="10" face="Times" color="red">
This is a another paragraph.
</font>
</p>

</body>
</html>
```

The screenshot shows a Windows Notepad window titled "Exe.05 - Notepad". The window contains the following HTML code:

```
<html>
<body>

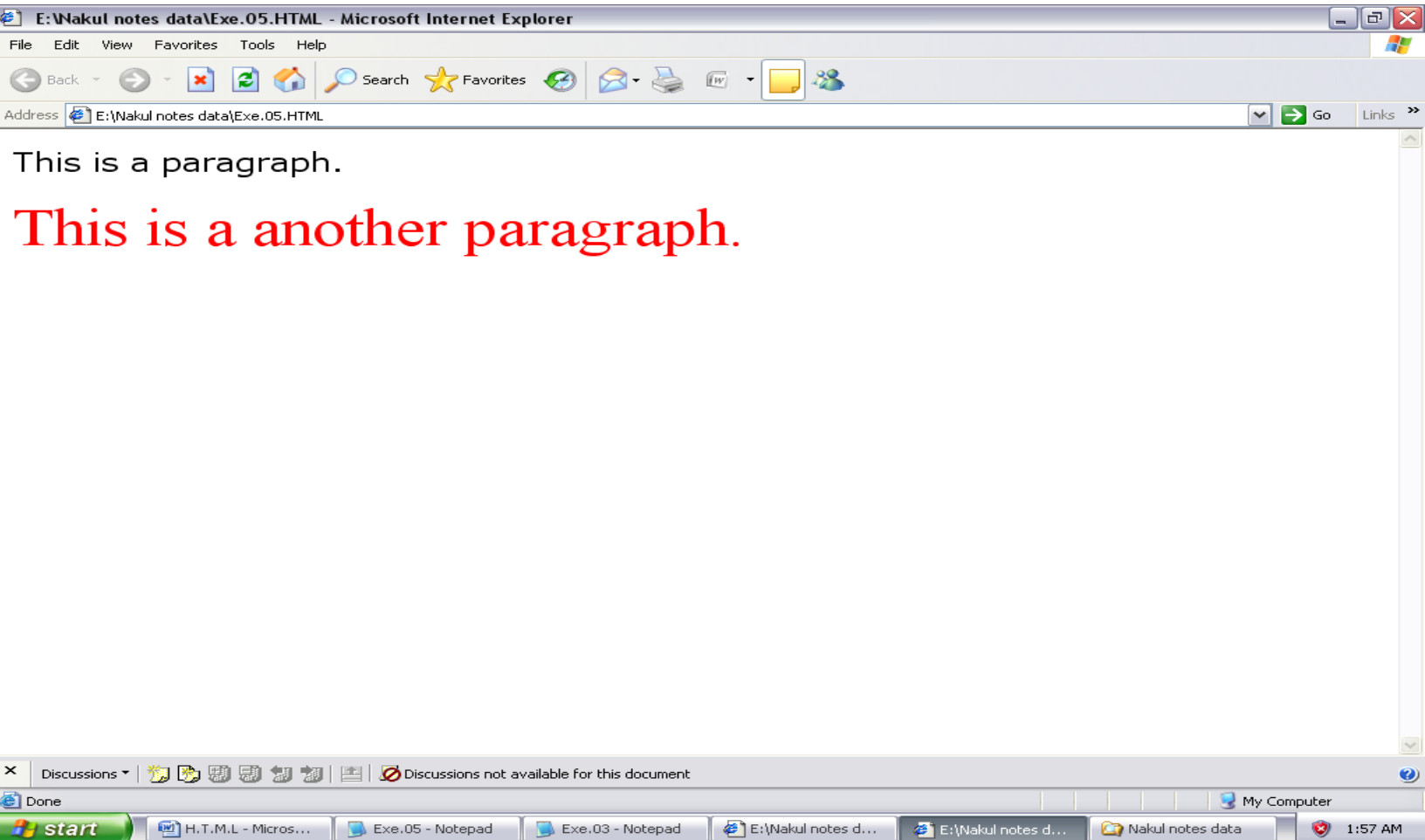
<p>
<font size="5" face="Verdana" colour="blue">
This is a paragraph.
</font>
</p>

<p>
<font size="10" face="Times" color="red">
This is a another paragraph.
</font>
</p>

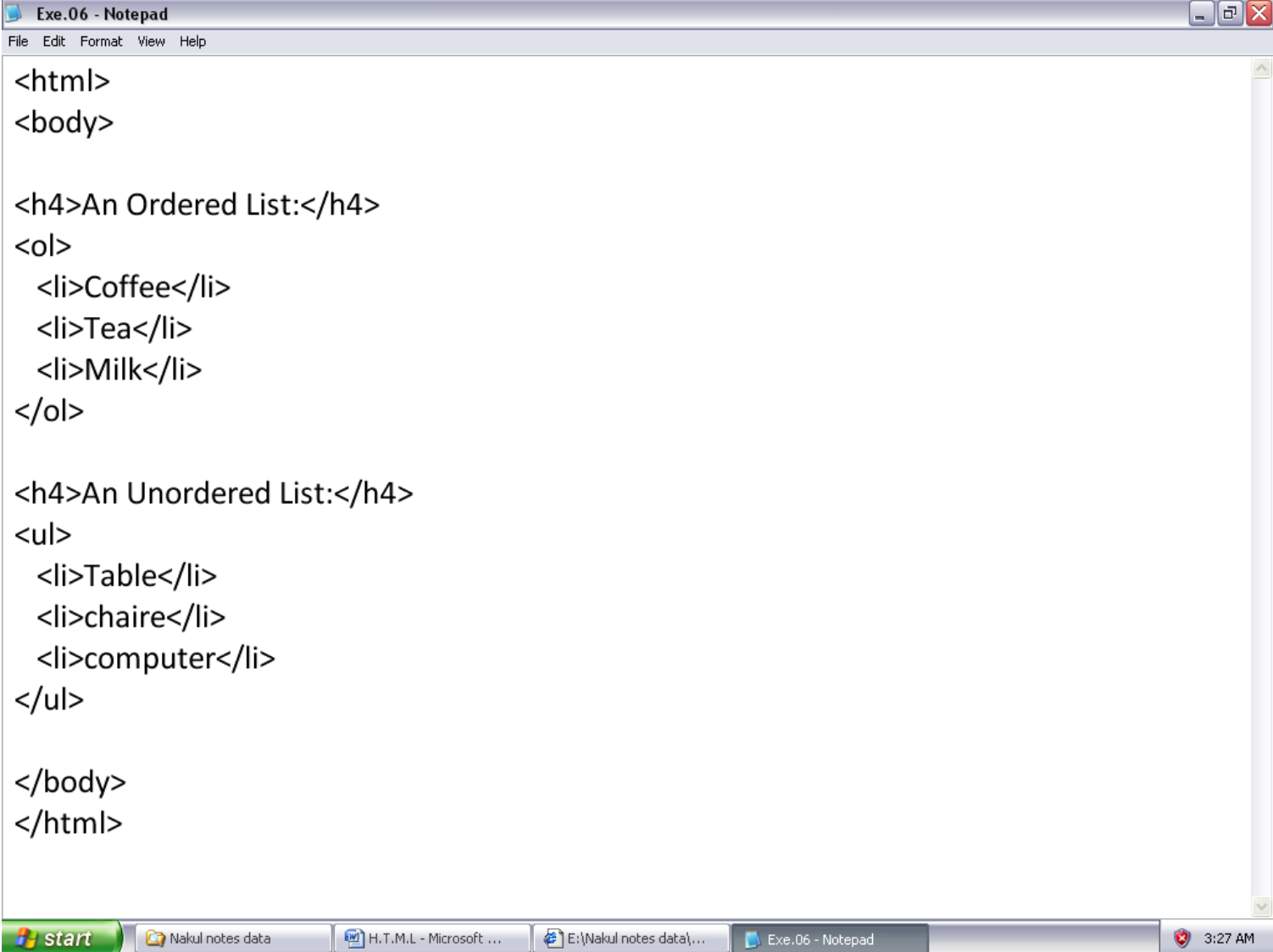
</body>
</html>
```

The taskbar at the bottom shows several open applications: "start", "H.T.M.L - Microsoft ...", "Nakul notes data", "Exe.10 - Notepad", "Exe.05 - Notepad", and "E:\Nakul notes data\...". The system clock shows "1:26 AM".

Results in:- “Internet Explorer” like as:-



Example of: Bullets & Listing An Ordered, List, An Unordered tag in “Notepad” like as:-



```
<html>
<body>

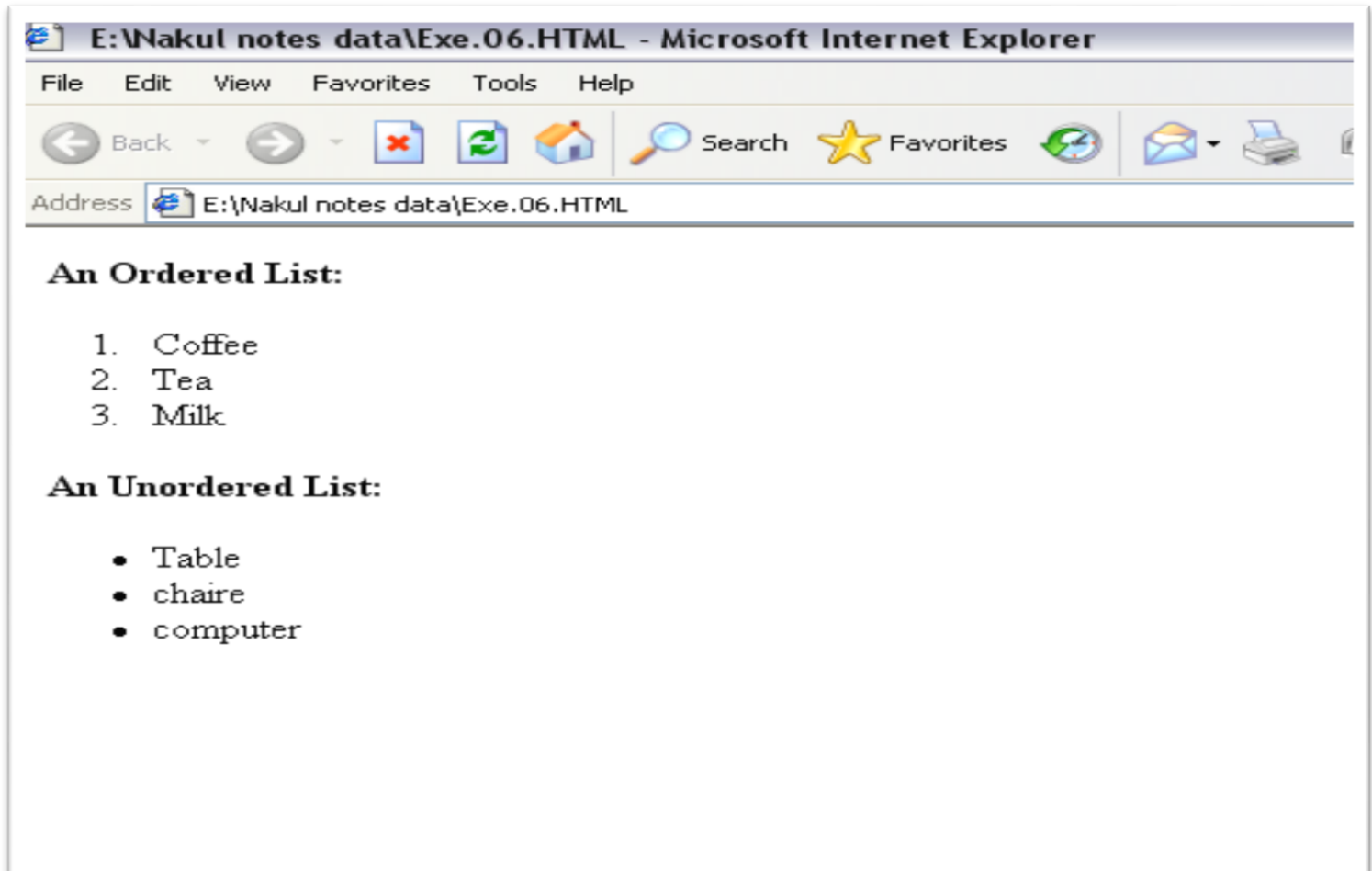
<h4>An Ordered List:</h4>
<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>

<h4>An Unordered List:</h4>
<ul>
  <li>Table</li>
  <li>chaire</li>
  <li>computer</li>
</ul>

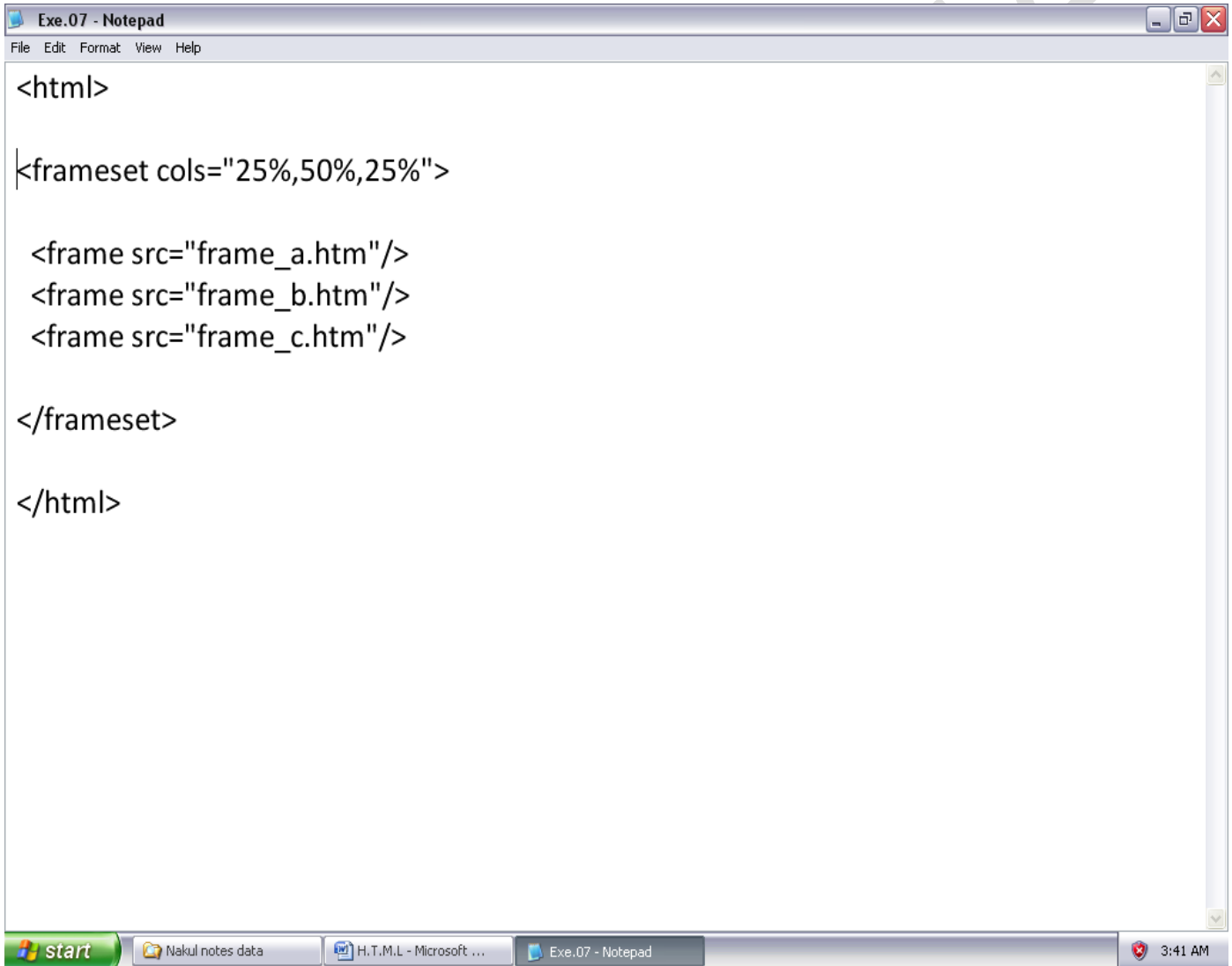
</body>
</html>
```

The screenshot shows a Notepad window titled "Exe.06 - Notepad" with a menu bar (File, Edit, Format, View, Help). The text area contains the HTML code for an ordered list and an unordered list. The Windows taskbar at the bottom shows the Start button, several open applications, and the system clock displaying 3:27 AM.

Results in:- “Internet Explorer” like as:-



Example of: Frameset column `<frameset cols>` tag in “Notepad” like as:-



```
<html>

<frameset cols="25%,50%,25%">

  <frame src="frame_a.htm"/>
  <frame src="frame_b.htm"/>
  <frame src="frame_c.htm"/>

</frameset>

</html>
```

The screenshot shows a Windows Notepad window titled "Exe.07 - Notepad". The window contains the following HTML code:

```
<html>

<frameset cols="25%,50%,25%">

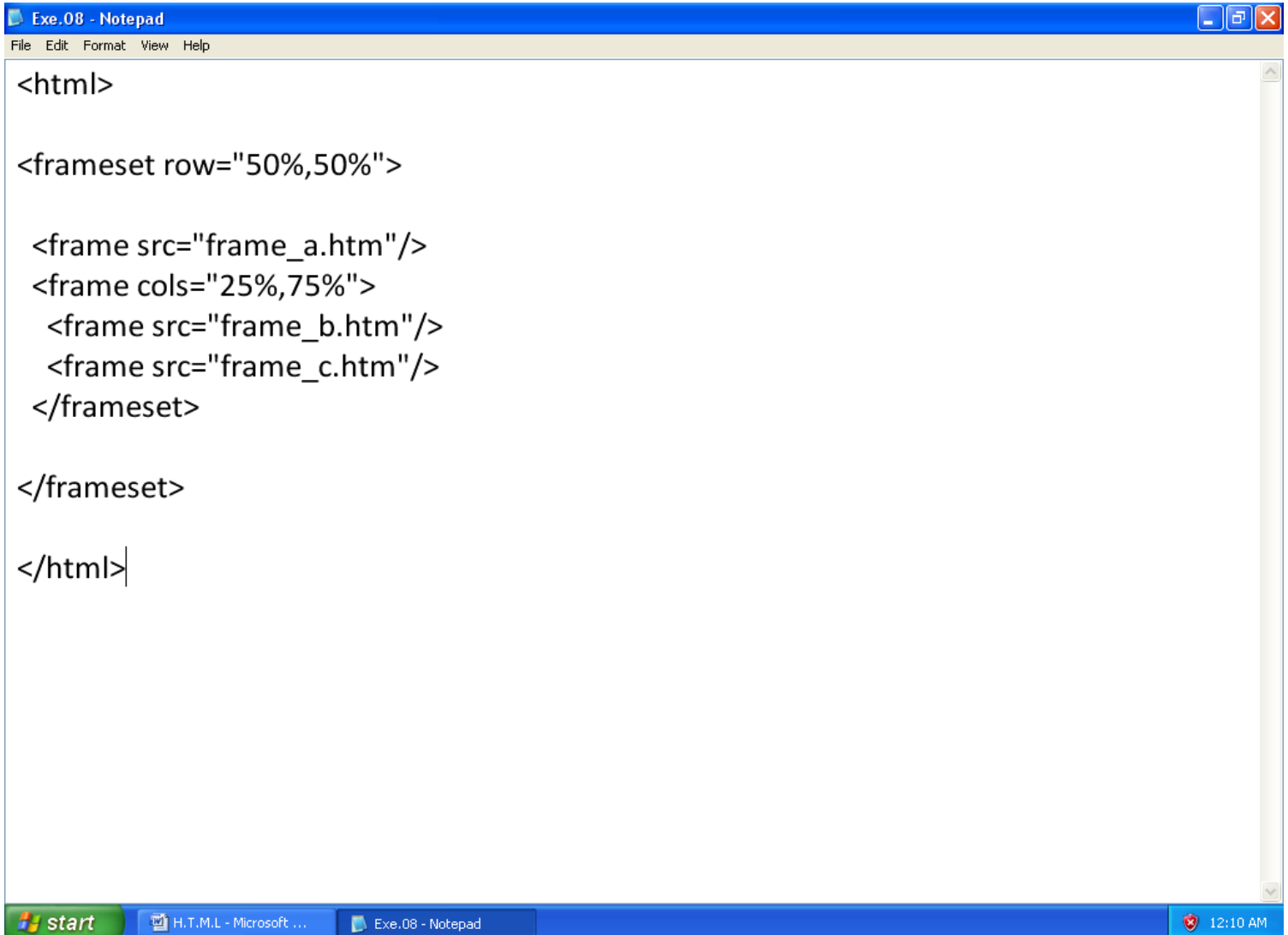
  <frame src="frame_a.htm"/>
  <frame src="frame_b.htm"/>
  <frame src="frame_c.htm"/>

</frameset>

</html>
```

The taskbar at the bottom shows the Start button, several open applications (Nakul notes data, H.T.M.L - Microsoft..., Exe.07 - Notepad), and the system clock showing 3:41 AM.

Example of: Frameset Row <frameset row> tag in “Notepad” like as:-



```
<html>

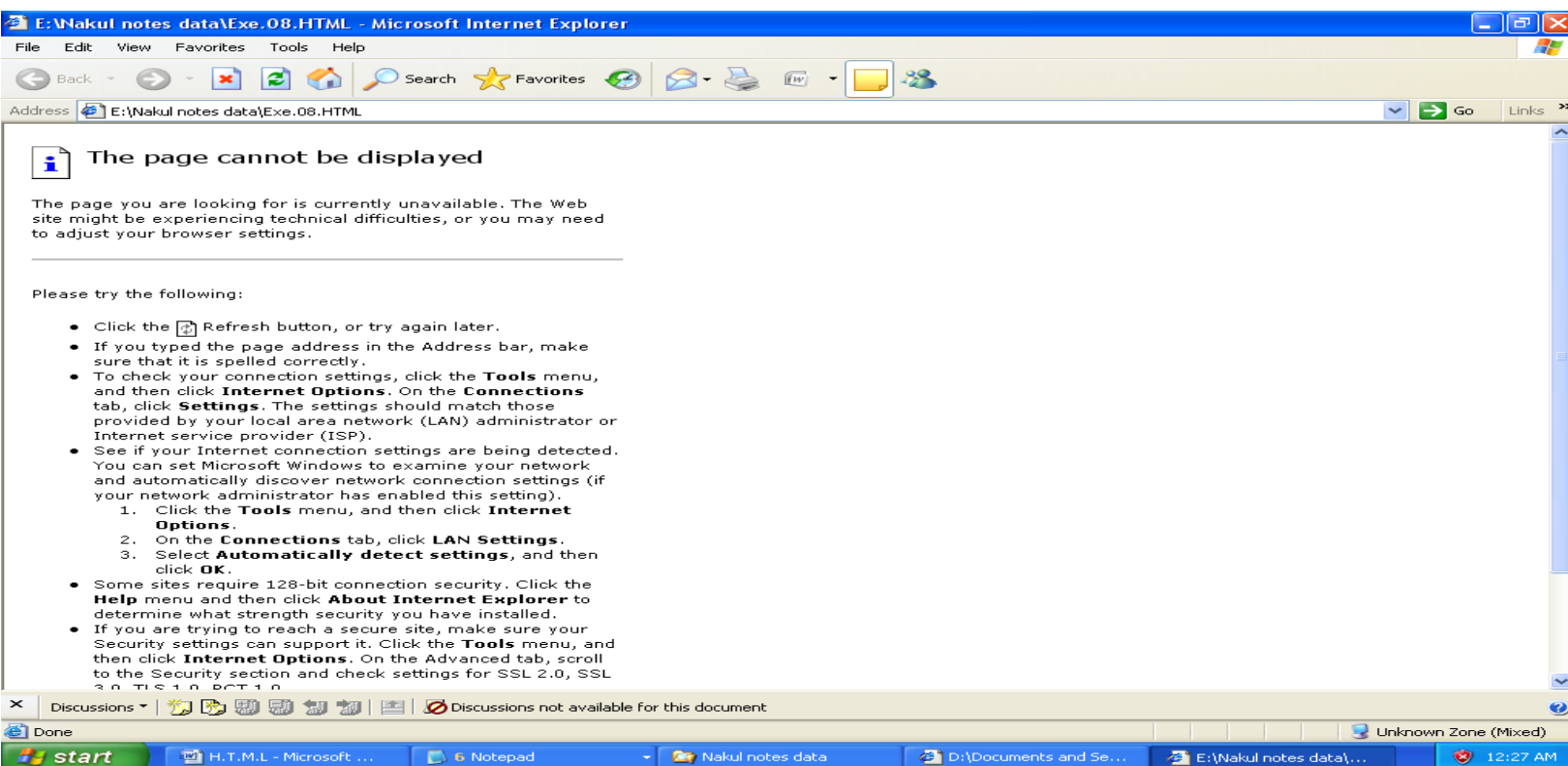
<frameset row="50%,50%">

  <frame src="frame_a.htm"/>
  <frame cols="25%,75%">
    <frame src="frame_b.htm"/>
    <frame src="frame_c.htm"/>
  </frameset>

</frameset>

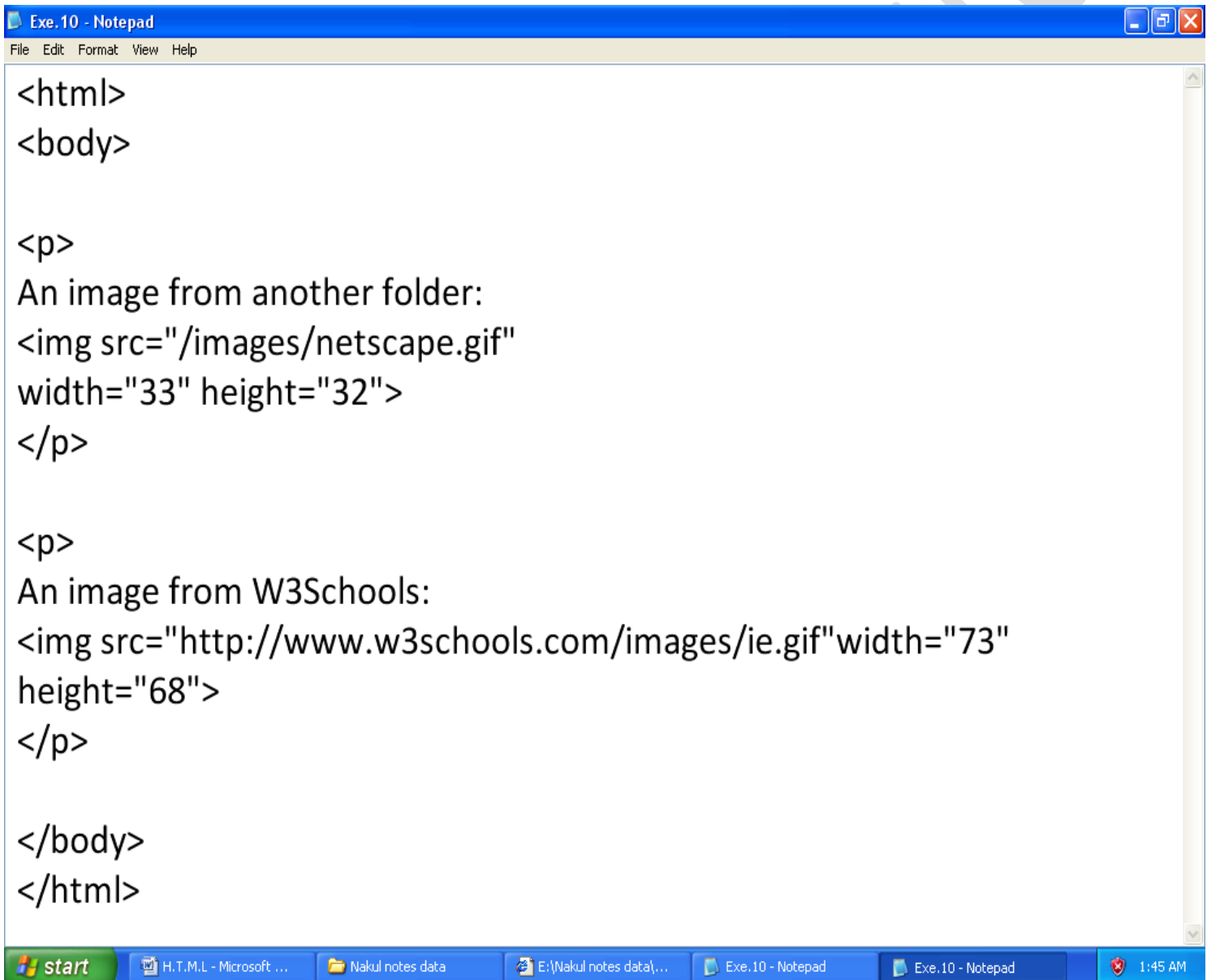
</html>
```

Results in:- “Internet Explorer” like as:-



Lesson – 6

Example of: Image Linking tag in “Notepad” like as:-



```
Exe.10 - Notepad
File Edit Format View Help

<html>
<body>

<p>
An image from another folder:

</p>

<p>
An image from W3Schools:

</p>

</body>
</html>
```

The screenshot shows a Windows Notepad window titled "Exe.10 - Notepad". The window contains the following HTML code:

```
<html>
<body>

<p>
An image from another folder:

</p>

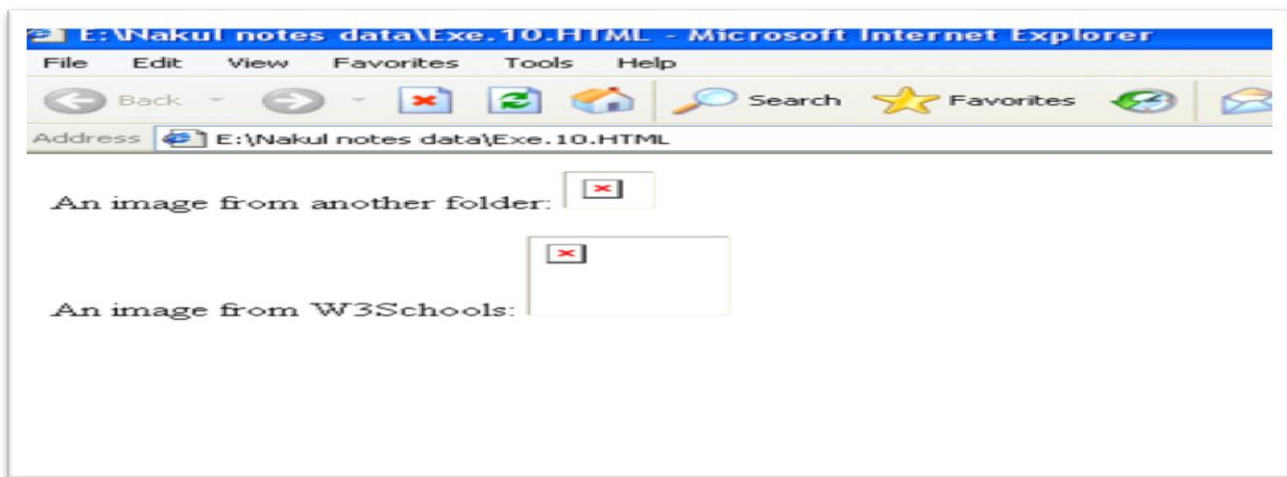
<p>
An image from W3Schools:

</p>

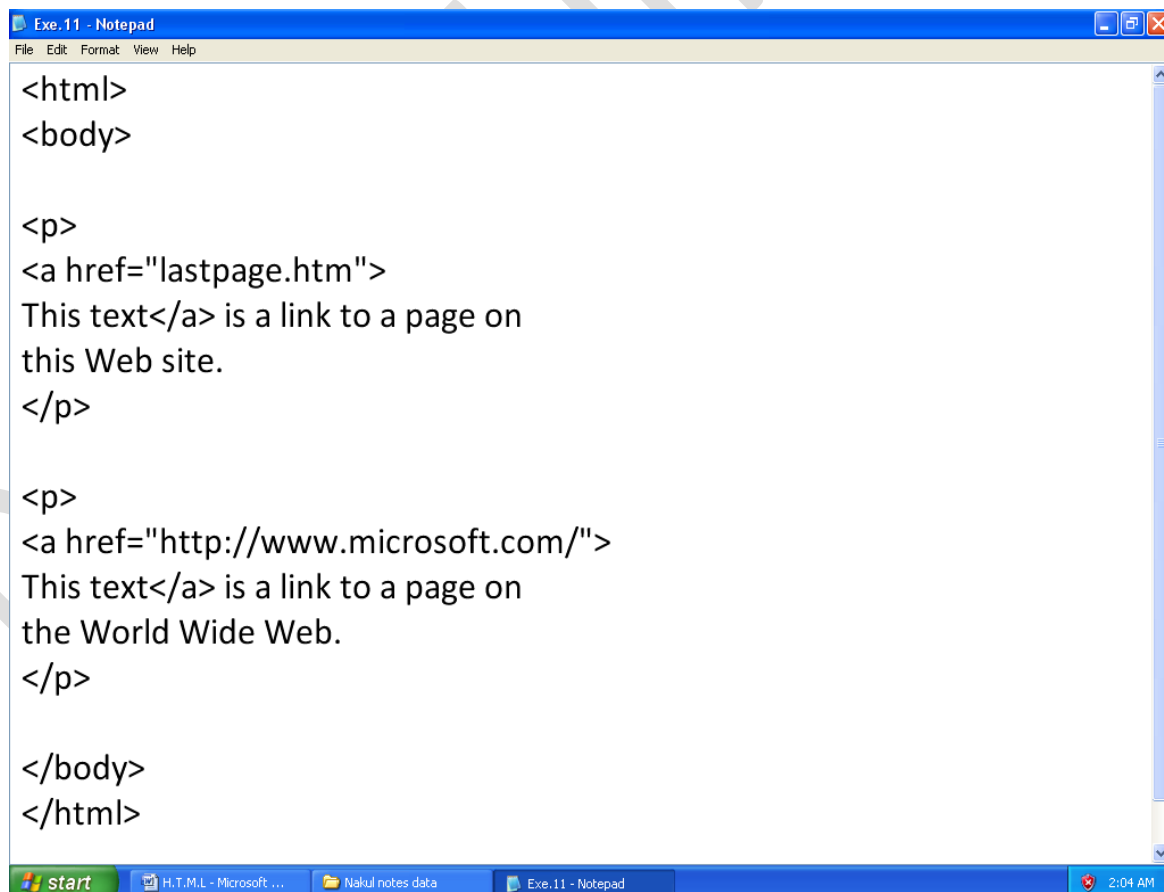
</body>
</html>
```

The taskbar at the bottom shows the Start button, several open applications (H.T.M.L - Microsoft..., Nakul notes data, E:\Nakul notes data\..., Exe.10 - Notepad), and the system clock showing 1:45 AM.

Results in:- “Internet Explorer” like as:-



Example of: Hyperlink <a href> tag in “Notepad” like as:-

A screenshot of the Notepad application window titled "Exe.11 - Notepad". The text area contains the following HTML code:

```
<html>
<body>

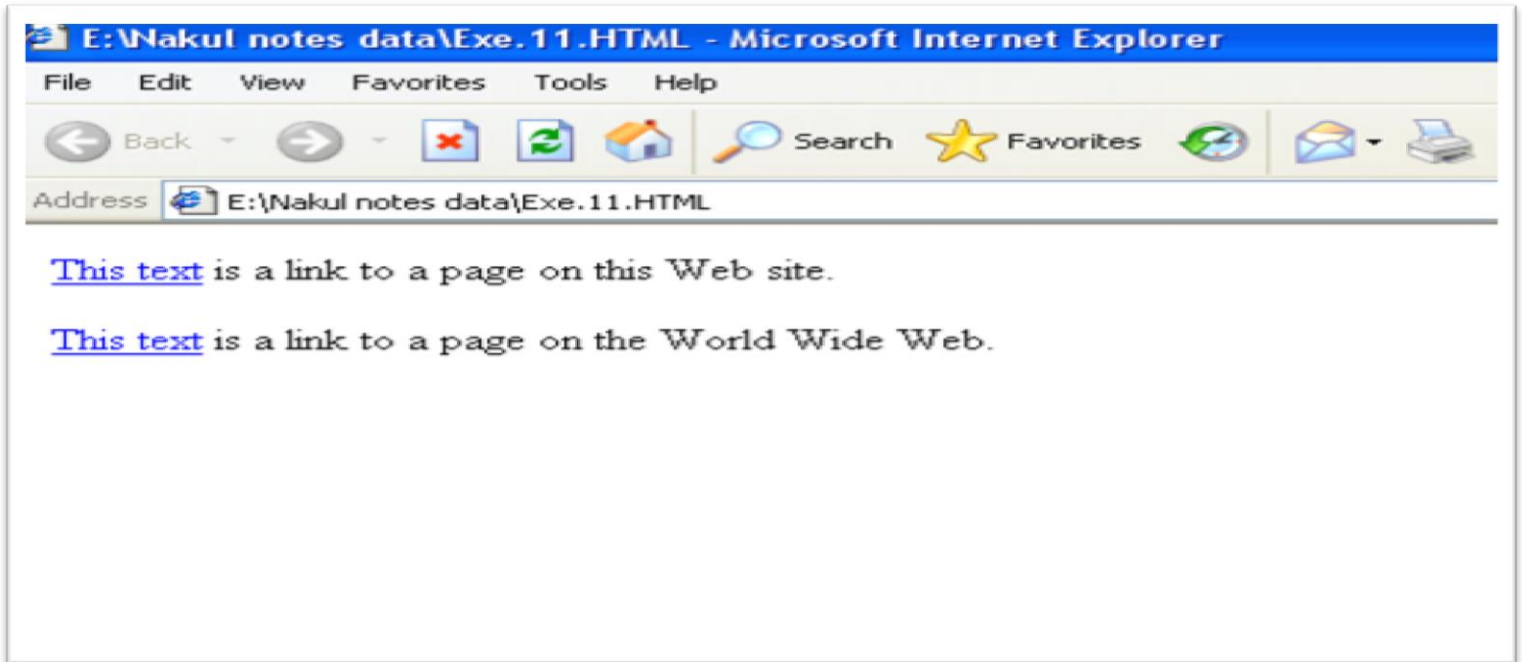
<p>
<a href="lastpage.htm">
This text</a> is a link to a page on
this Web site.
</p>

<p>
<a href="http://www.microsoft.com/">
This text</a> is a link to a page on
the World Wide Web.
</p>

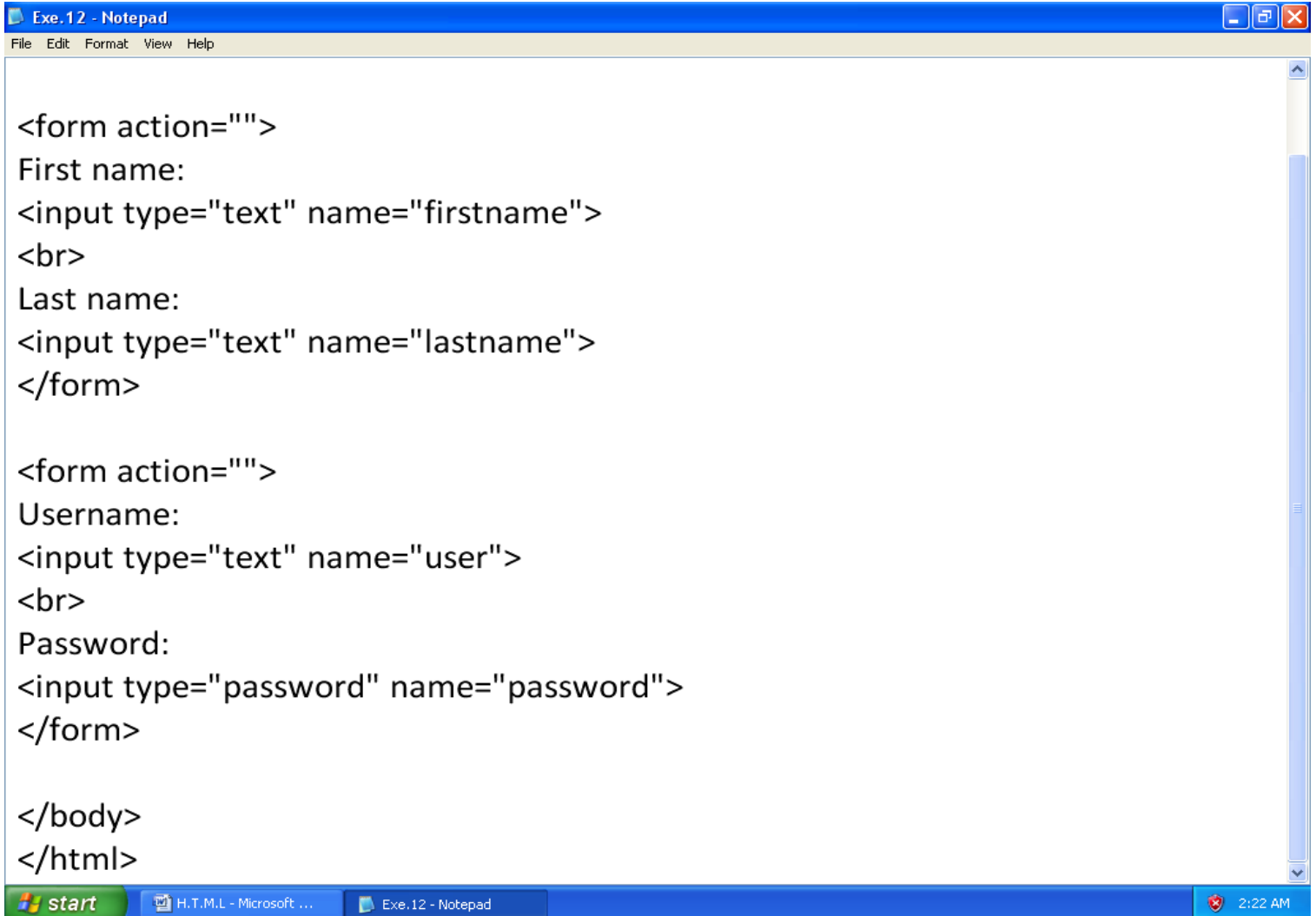
</body>
</html>
```

The Windows taskbar at the bottom shows the Start button, a taskbar with icons for "H.T.M.L - Microsoft ...", "Nakul notes data", and "Exe.11 - Notepad", and a system tray with the time "2:04 AM".

Results in:- “Internet Explorer” like as:-



Example of: Form Designing <form action> tag in “Notepad” like as:-



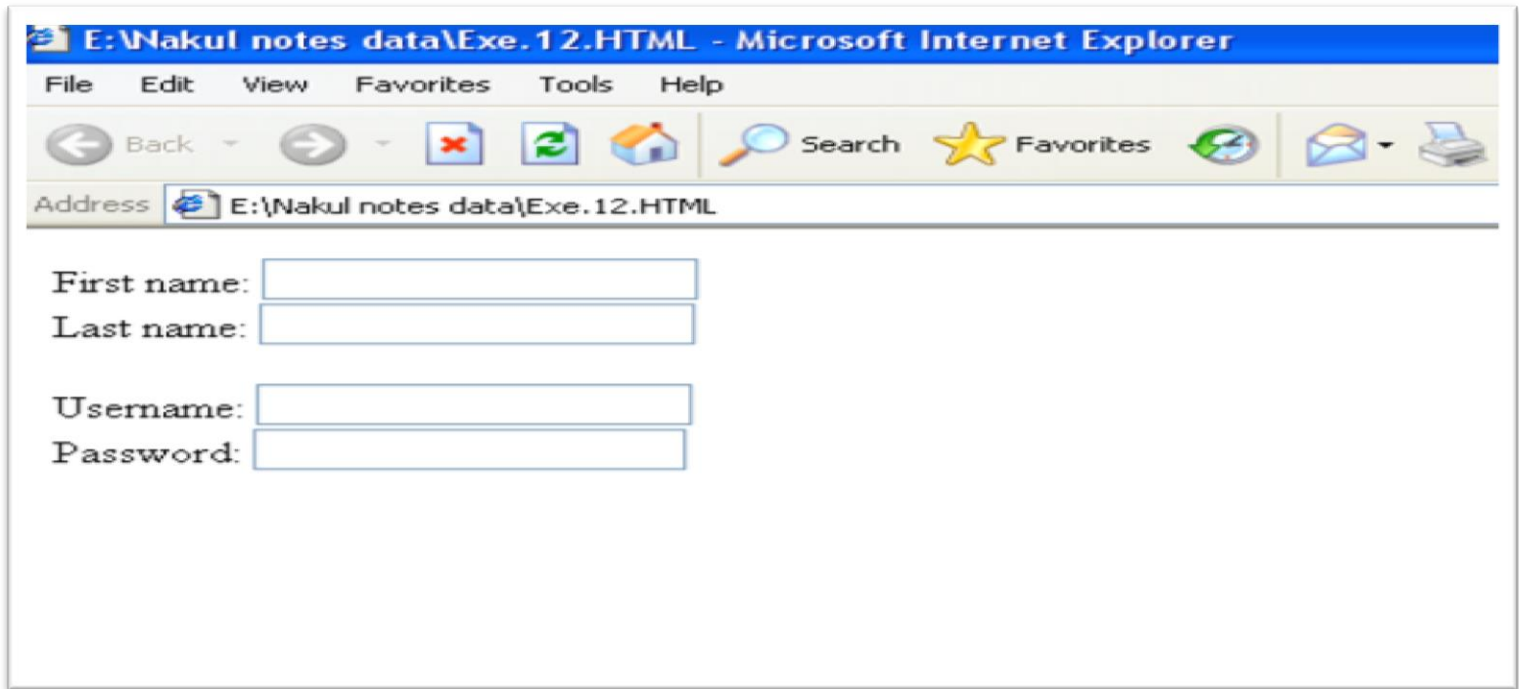
```
Exe.12 - Notepad
File Edit Format View Help

<form action="">
First name:
<input type="text" name="firstname">
<br>
Last name:
<input type="text" name="lastname">
</form>

<form action="">
Username:
<input type="text" name="user">
<br>
Password:
<input type="password" name="password">
</form>

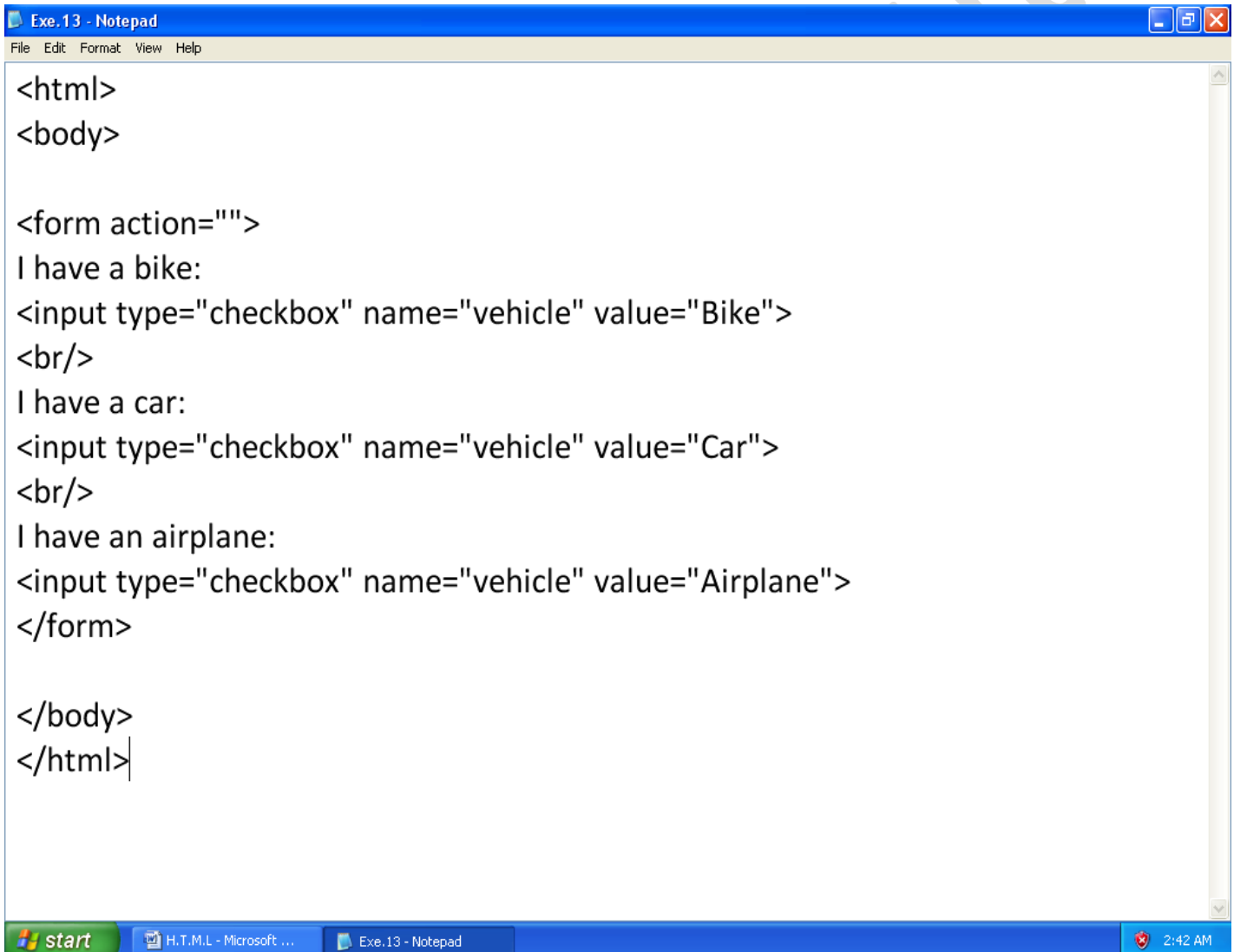
</body>
</html>
```

Results in:- “Internet Explorer” like as:-



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Example of: Form Designing <form action> tag in “Notepad” like as:-

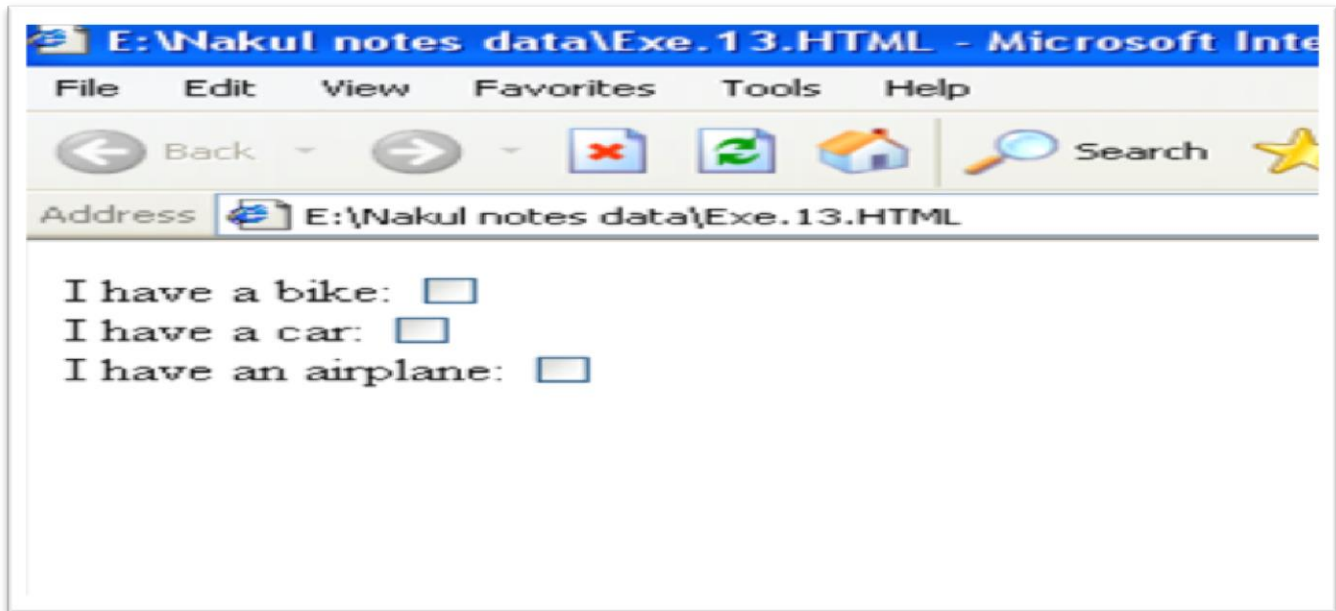


```
<html>
<body>

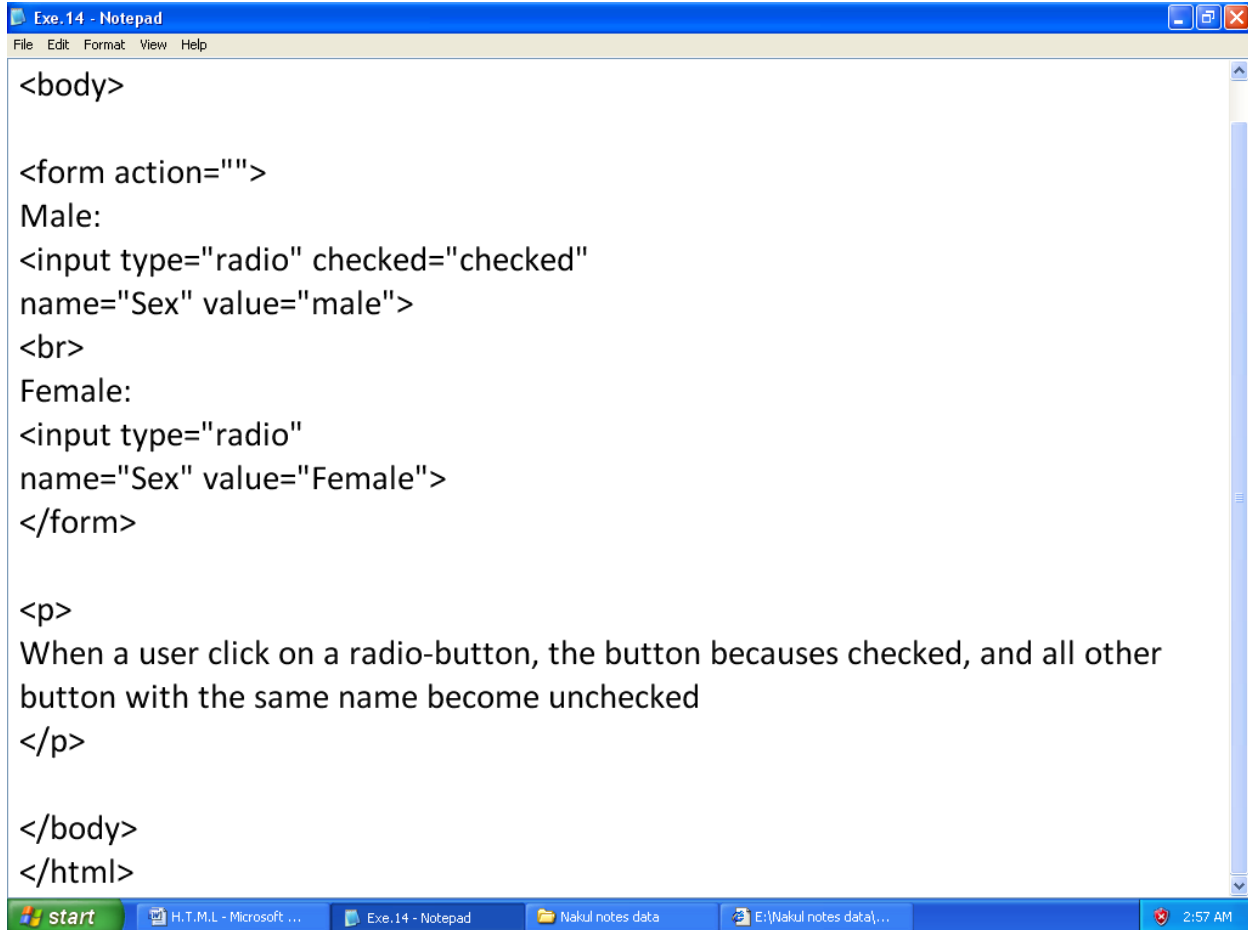
<form action="">
I have a bike:
<input type="checkbox" name="vehicle" value="Bike">
<br/>
I have a car:
<input type="checkbox" name="vehicle" value="Car">
<br/>
I have an airplane:
<input type="checkbox" name="vehicle" value="Airplane">
</form>

</body>
</html>
```

Results in:- “Internet Explorer” like as:-



Example of: Form Designing <form action> tag in “Notepad” like as:-



```
Exe.14 - Notepad
File Edit Format View Help
<body>

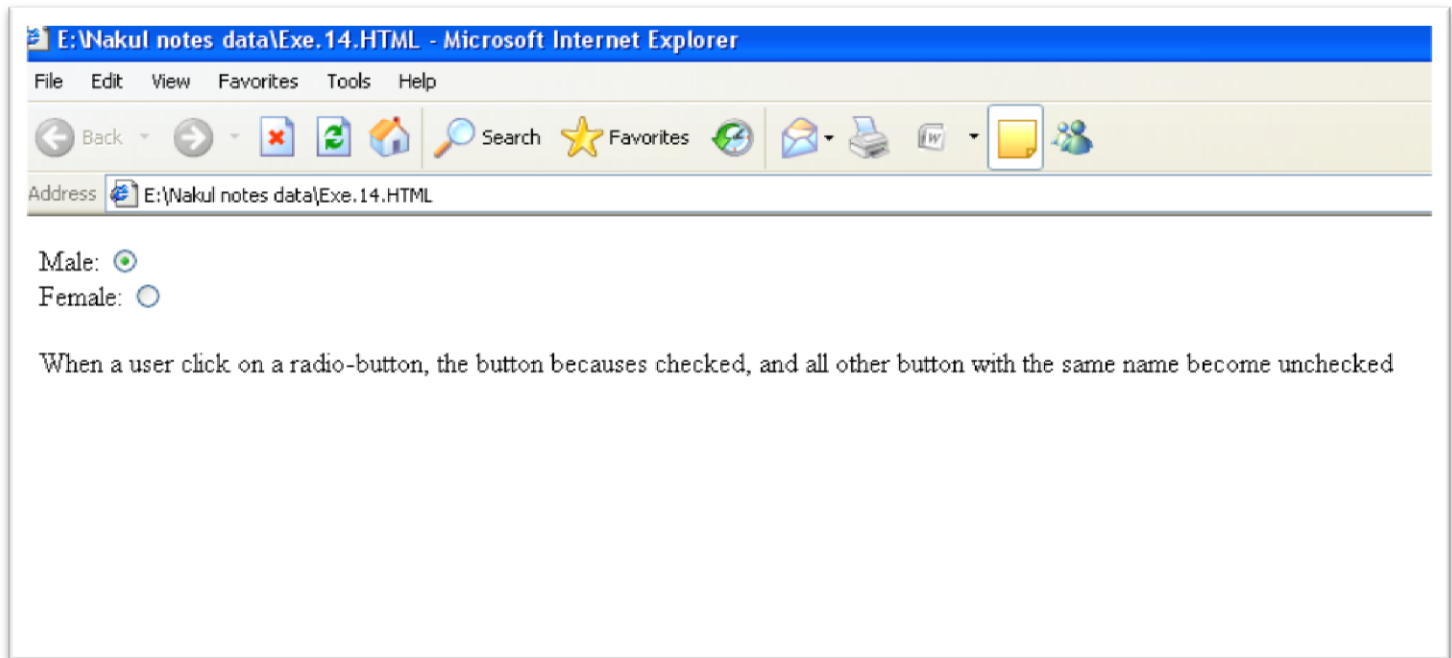
<form action="">
Male:
<input type="radio" checked="checked"
name="Sex" value="male">
<br>
Female:
<input type="radio"
name="Sex" value="Female">
</form>

<p>
When a user click on a radio-button, the button becomes checked, and all other
button with the same name become unchecked
</p>

</body>
</html>
```

The screenshot shows a Notepad window titled "Exe.14 - Notepad" with a menu bar (File, Edit, Format, View, Help). The text area contains HTML code for a form with two radio buttons. The first radio button is checked and labeled "Male", and the second is labeled "Female". Below the code, a paragraph explains that when a radio button is clicked, it becomes checked and all other buttons with the same name become unchecked. The Windows taskbar at the bottom shows the Start button, several open applications, and the system clock displaying 2:57 AM.

Results in:- “Internet Explore” like as:-



Example of: Form Designing <form action> tag in “Notepad” like as:-

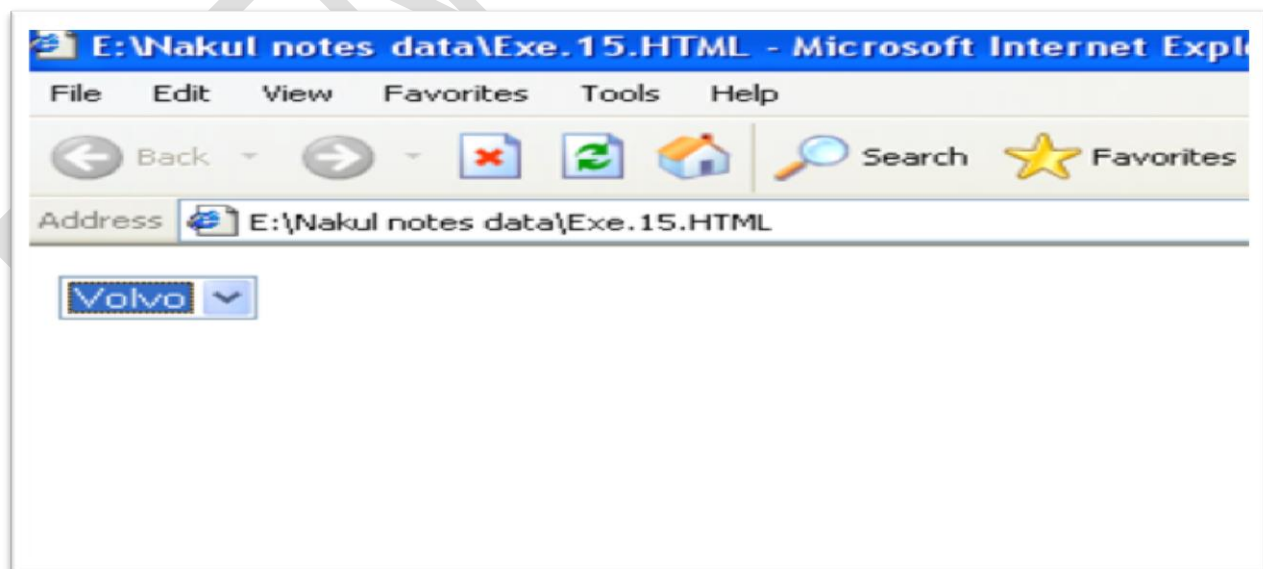
```
Exe.15 - Notepad
File Edit Format View Help

<html>
<body>

<form action="">
<select name="cars">
<option value="volvo">Volvo</option>
<option value="saab">Saab</option>
<option value="fiat">Fiat</option>
<option value="audi">Audi</option>
</select>
</form>

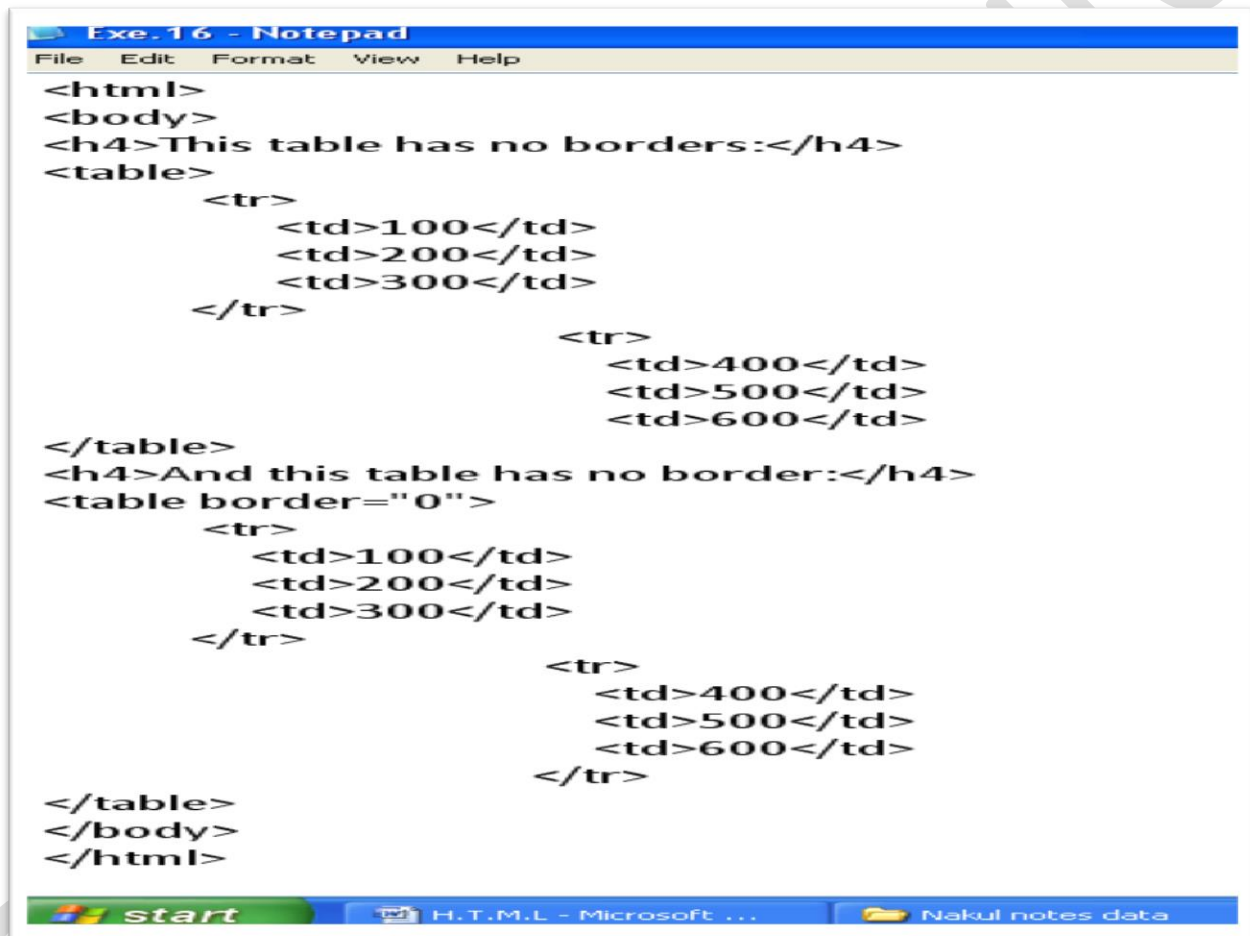
</body>
</html>
```

Results in:- “Internet Explore” like as:-



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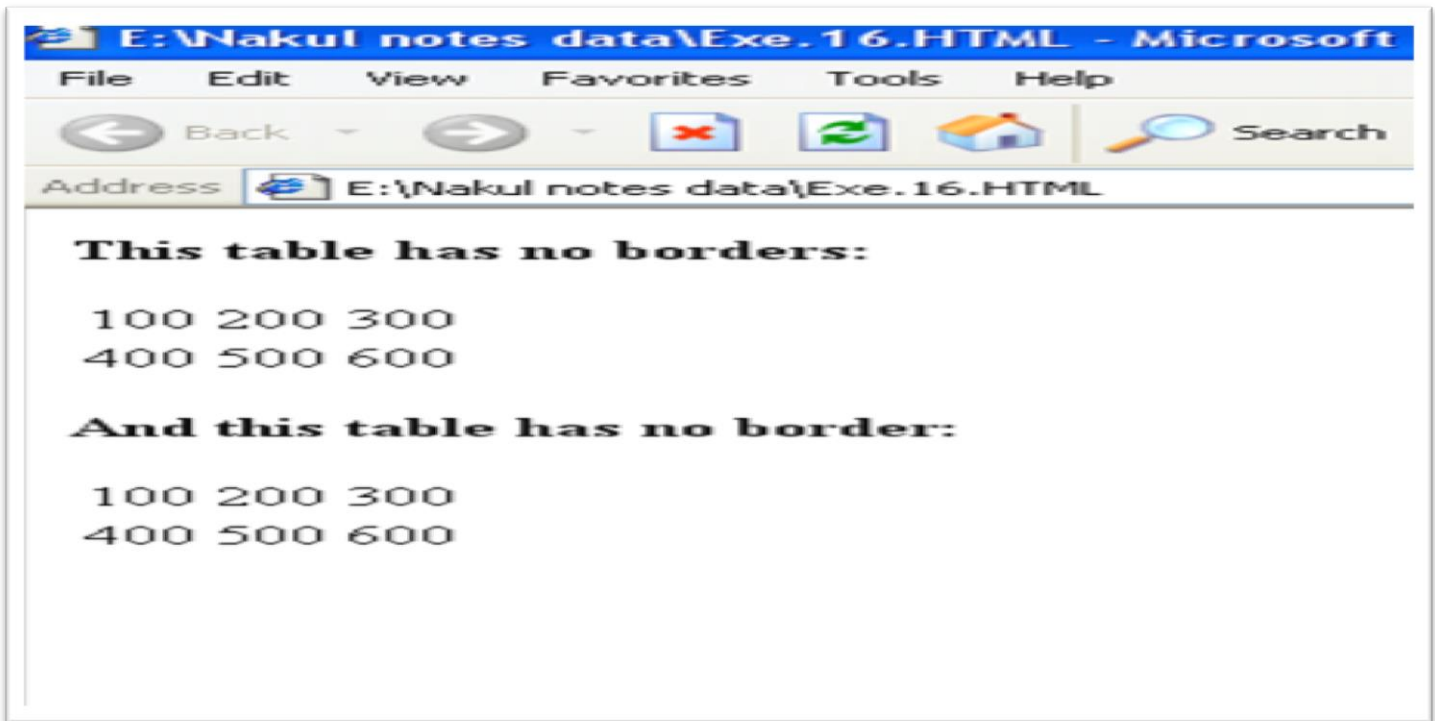
Example of: Simple Table `<table>` tag in “Notepad”
like as:-



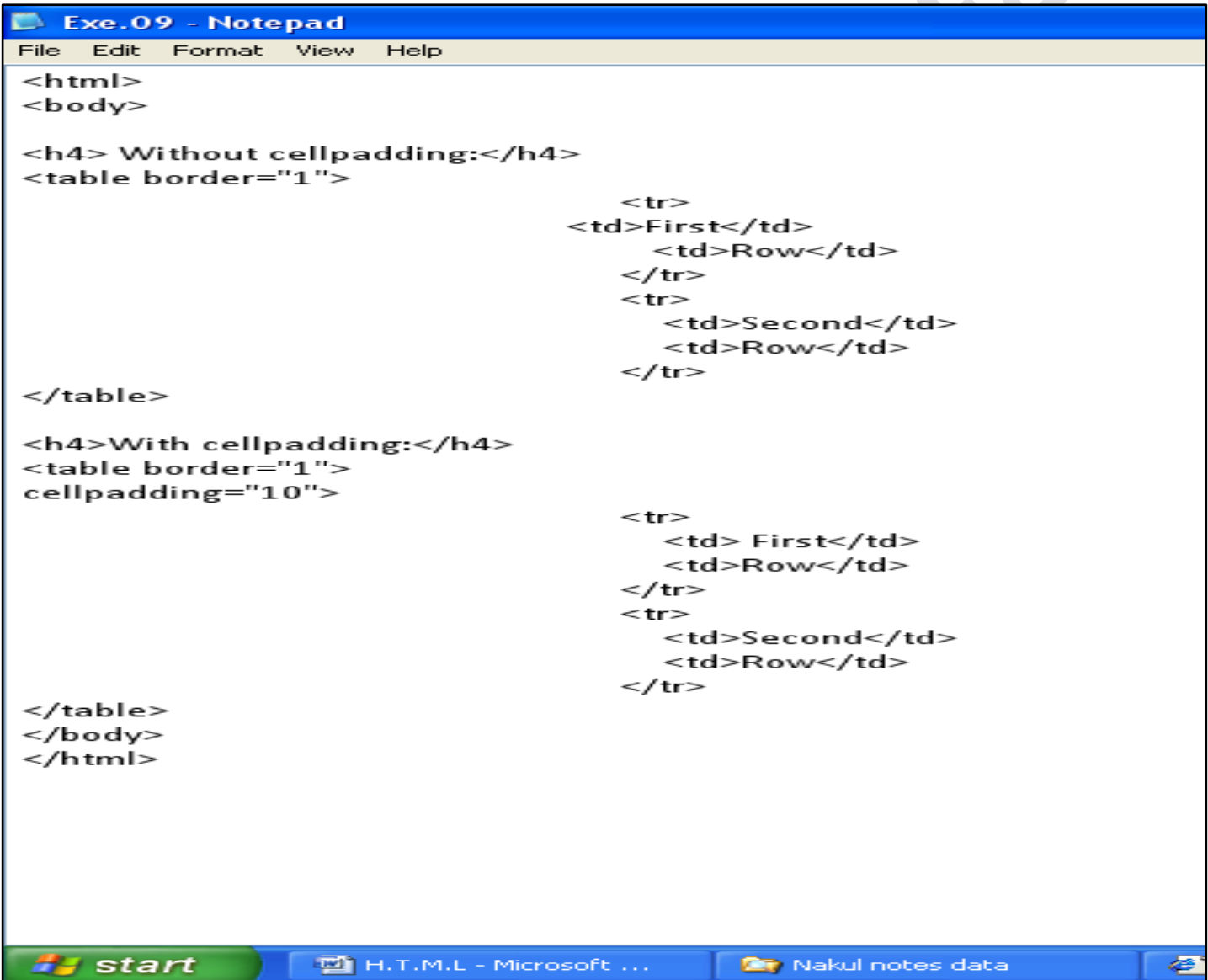
```
Exe.16 - Notepad
File Edit Format View Help
<html>
<body>
<h4>This table has no borders:</h4>
<table>
  <tr>
    <td>100</td>
    <td>200</td>
    <td>300</td>
  </tr>
  <tr>
    <td>400</td>
    <td>500</td>
    <td>600</td>
  </tr>
</table>
<h4>And this table has no border:</h4>
<table border="0">
  <tr>
    <td>100</td>
    <td>200</td>
    <td>300</td>
  </tr>
  <tr>
    <td>400</td>
    <td>500</td>
    <td>600</td>
  </tr>
</table>
</body>
</html>
```

start H.T.M.L - Microsoft ... Nakul notes data

Results in:- “Internet Explorer” like as:-



Example of: Table Border `<table border>`, Table row `<tr>`, Table Data `<td>`, & Cell padding `<cellpadding>` tag in “Notepad” like as:-

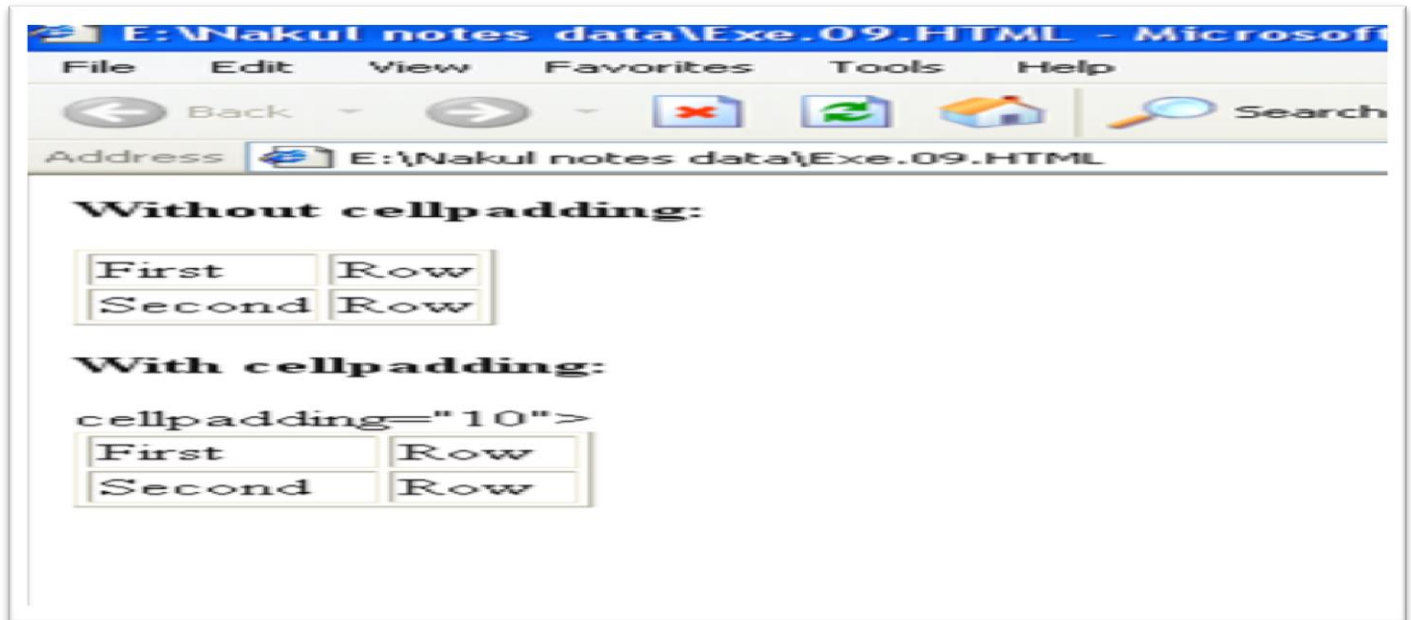


```
<html>
<body>

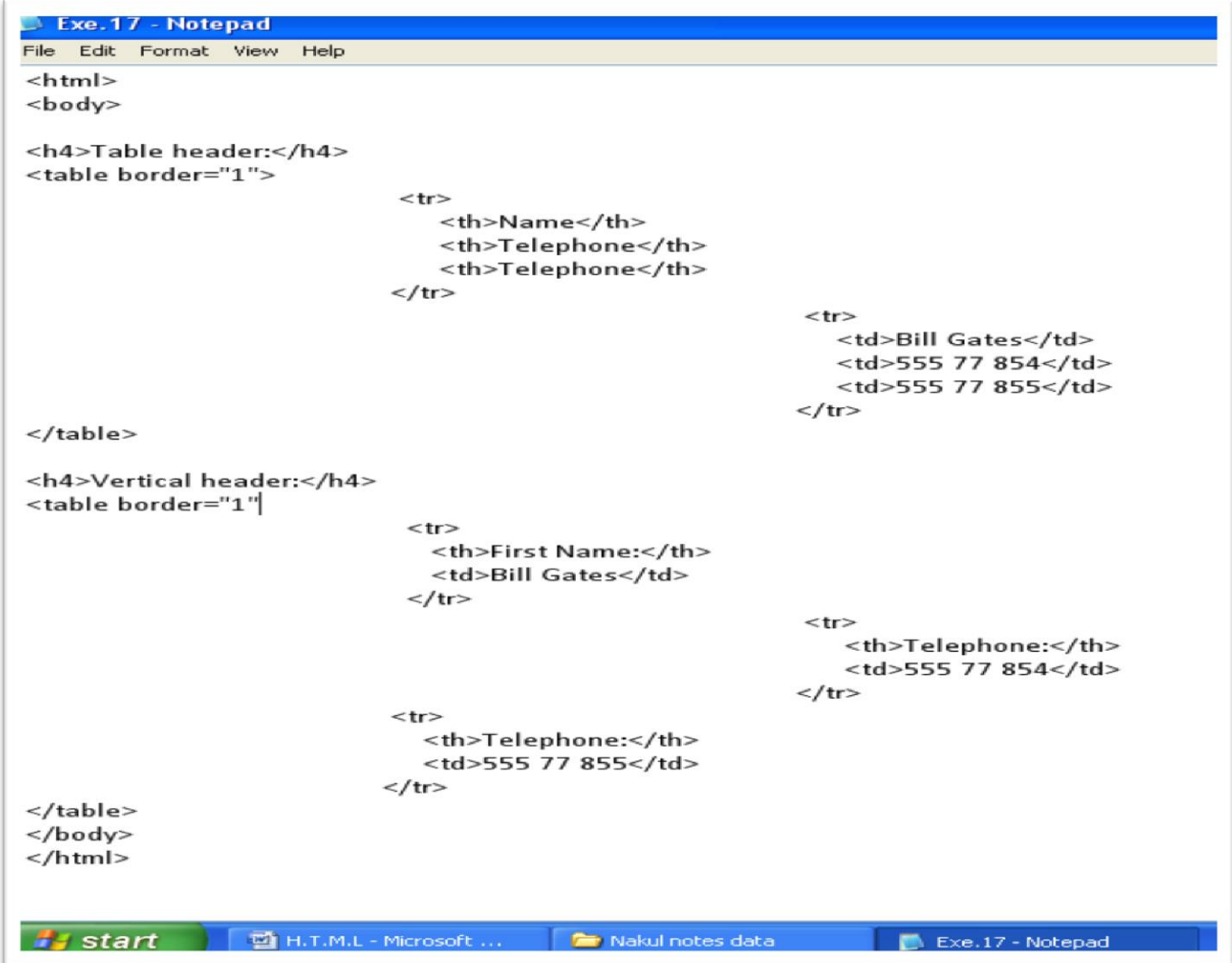
<h4> Without cellpadding:</h4>
<table border="1">
    <tr>
    <td>First</td>
    <td>Row</td>
    </tr>
    <tr>
    <td>Second</td>
    <td>Row</td>
    </tr>
</table>

<h4>With cellpadding:</h4>
<table border="1" cellpadding="10">
    <tr>
    <td> First</td>
    <td>Row</td>
    </tr>
    <tr>
    <td>Second</td>
    <td>Row</td>
    </tr>
</table>
</body>
</html>
```

Results in:- “Internet Explorer” like as:-



Example of: Table Border <table border>, Table row <tr>, Table Data <td>, & Cell padding <cellpadding> tag in “Notepad” like as:-

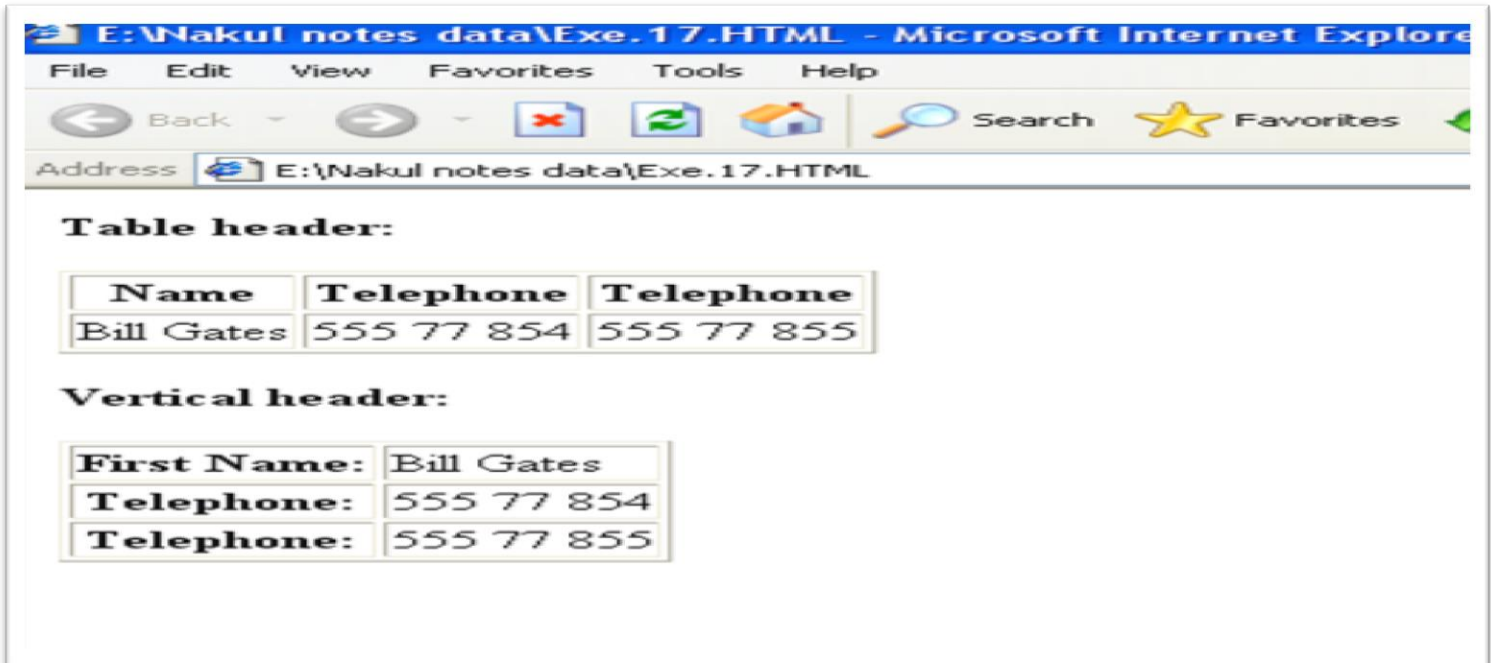


```
<html>
<body>

<h4>Table header:</h4>
<table border="1">
    <tr>
        <th>Name</th>
        <th>Telephone</th>
        <th>Telephone</th>
    </tr>
    <tr>
        <td>Bill Gates</td>
        <td>555 77 854</td>
        <td>555 77 855</td>
    </tr>
</table>

<h4>Vertical header:</h4>
<table border="1">
    <tr>
        <th>First Name:</th>
        <td>Bill Gates</td>
    </tr>
    <tr>
        <th>Telephone:</th>
        <td>555 77 854</td>
    </tr>
    <tr>
        <th>Telephone:</th>
        <td>555 77 855</td>
    </tr>
</table>
</body>
</html>
```

Results in:- “Internet Explorer” like as:-



The screenshot shows a Microsoft Internet Explorer browser window displaying a web page. The address bar shows the file path: E:\Nakul notes data\Exe.17.HTML. The page content includes a table header and a vertical header.

Table header:

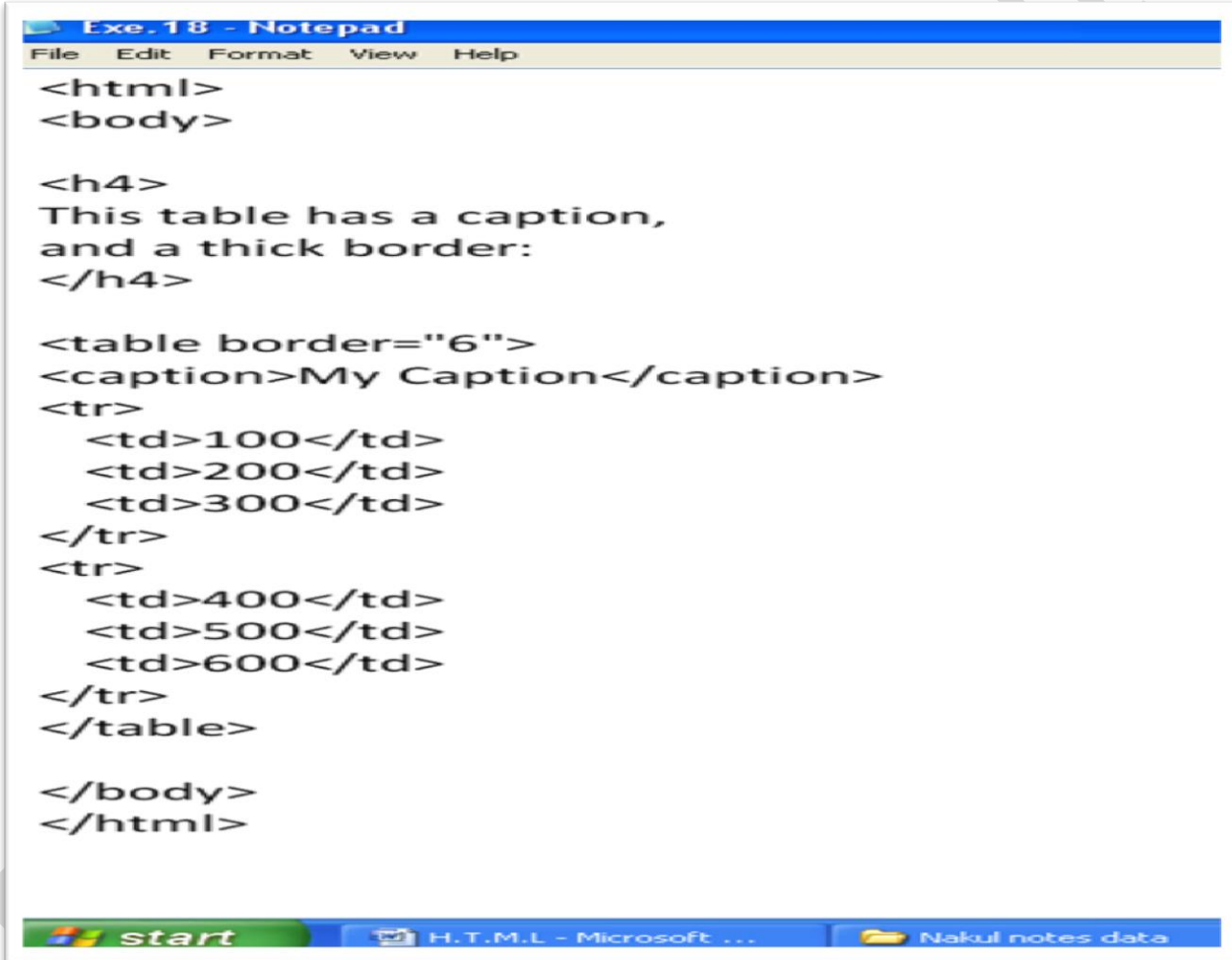
Name	Telephone	Telephone
Bill Gates	555 77 854	555 77 855

Vertical header:

First Name:	Bill Gates
Telephone:	555 77 854
Telephone:	555 77 855

Lesson – 9

Example of: Table Border & Caption <caption=> tag in “Notepad” like as:-



```
Exe.18 - Notepad
File Edit Format View Help

<html>
<body>

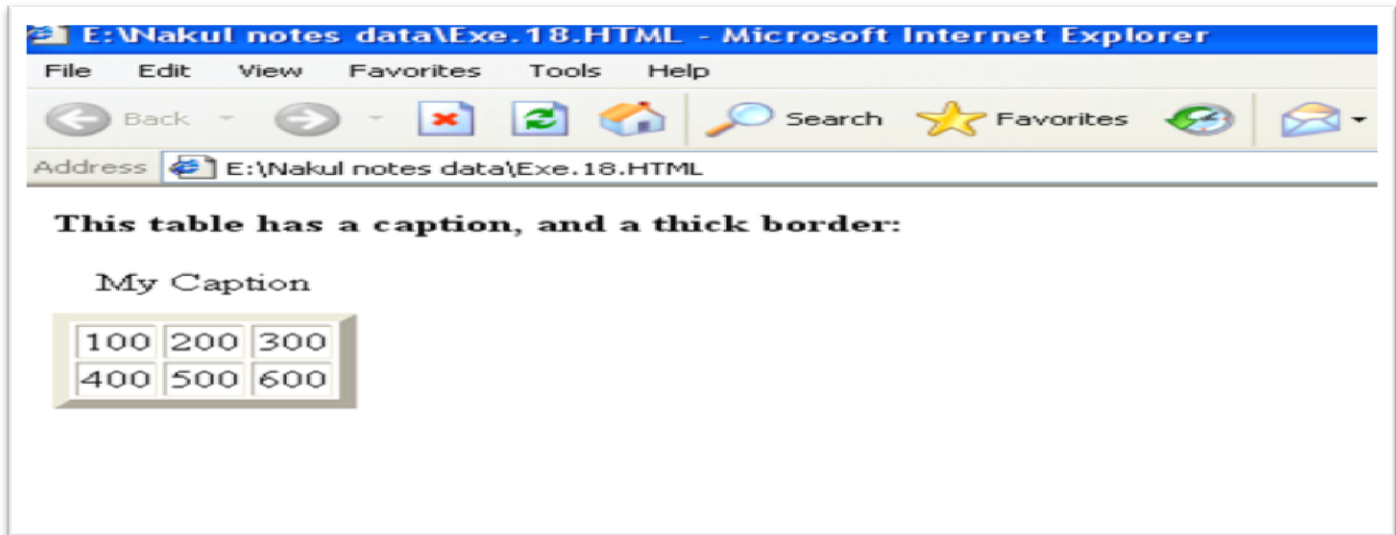
<h4>
This table has a caption,
and a thick border:
</h4>

<table border="6">
<caption>My Caption</caption>
<tr>
  <td>100</td>
  <td>200</td>
  <td>300</td>
</tr>
<tr>
  <td>400</td>
  <td>500</td>
  <td>600</td>
</tr>
</table>

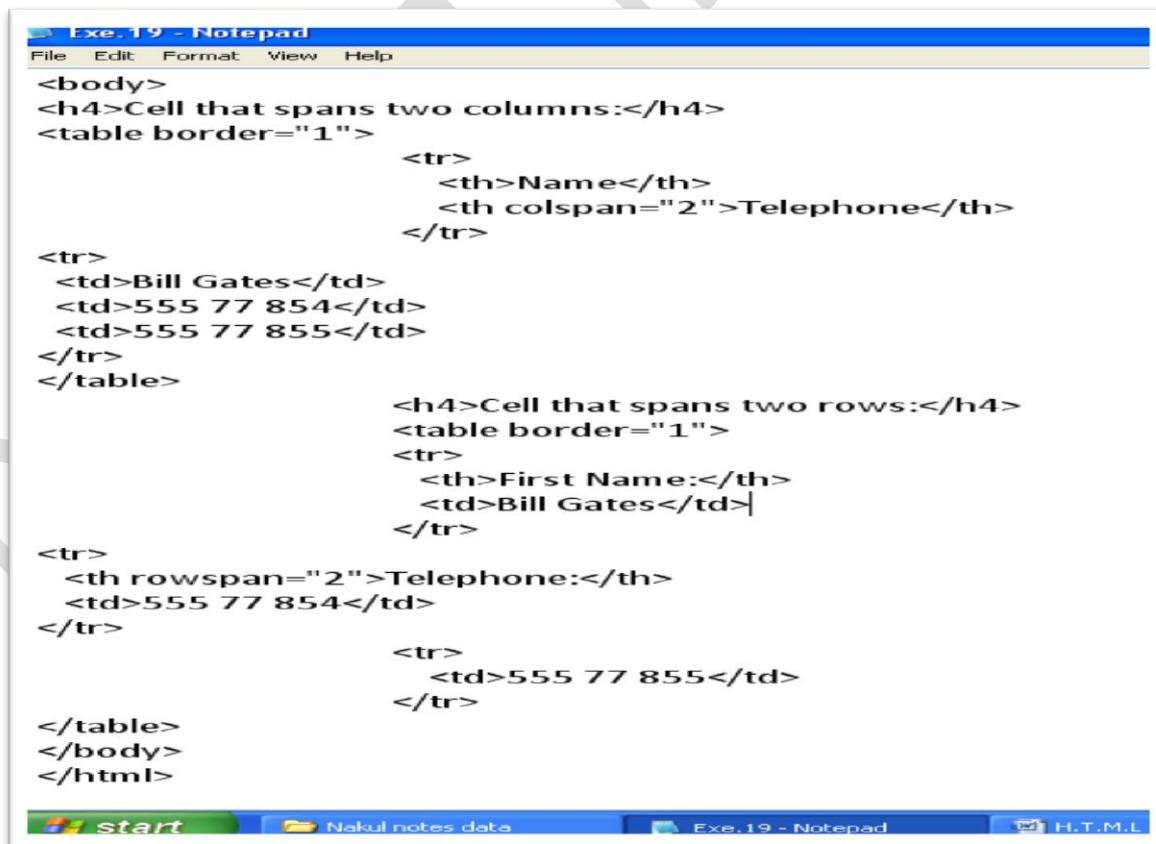
</body>
</html>
```

The screenshot shows a Windows Notepad window titled "Exe.18 - Notepad". The menu bar includes "File", "Edit", "Format", "View", and "Help". The text area contains the following HTML code: `<html>`, `<body>`, `<h4>`, "This table has a caption, and a thick border:", `</h4>`, `<table border="6">`, `<caption>My Caption</caption>`, `<tr>`, `<td>100</td>`, `<td>200</td>`, `<td>300</td>`, `</tr>`, `<tr>`, `<td>400</td>`, `<td>500</td>`, `<td>600</td>`, `</tr>`, `</table>`, `</body>`, and `</html>`. The Windows taskbar at the bottom shows the "start" button, a taskbar with "H.T.M.L - Microsoft ..." and "Nakul notes data", and the system tray.

Results in:- “Internet Explorer” like as:-



Example of: Table Spans Column & Rows <th colspan> & <th rowspan> tag in “Notepad” like as:-



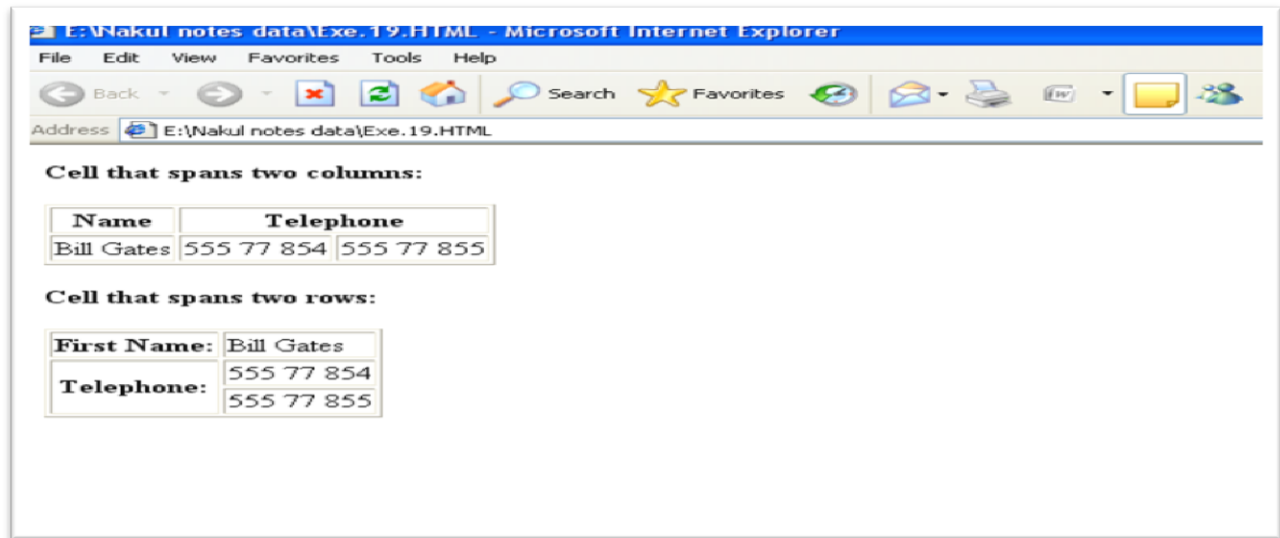
```

<body>
<h4>Cell that spans two columns:</h4>
<table border="1">
  <tr>
    <th>Name</th>
    <th colspan="2">Telephone</th>
  </tr>
  <tr>
    <td>Bill Gates</td>
    <td>555 77 854</td>
    <td>555 77 855</td>
  </tr>
</table>

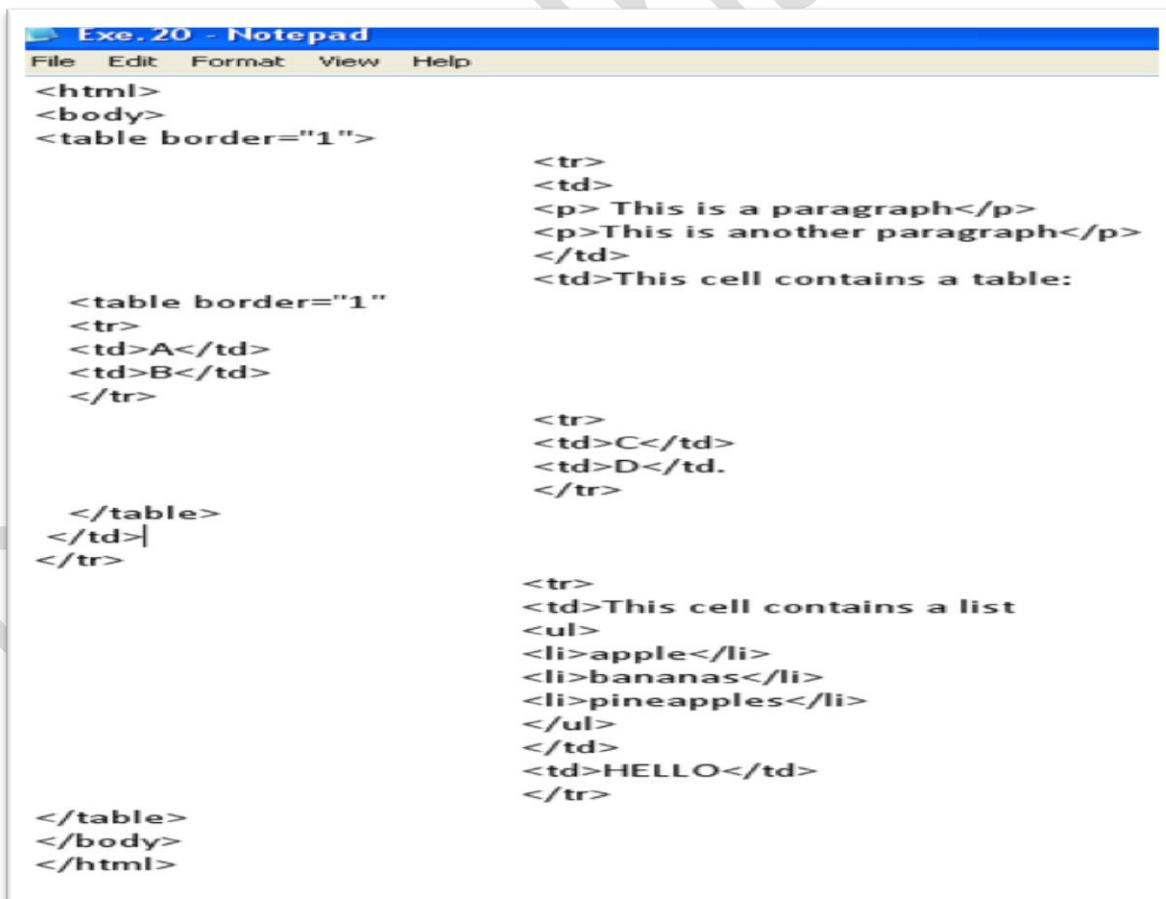
<h4>Cell that spans two rows:</h4>
<table border="1">
  <tr>
    <th>First Name:</th>
    <td>Bill Gates</td>
  </tr>
  <tr>
    <th rowspan="2">Telephone:</th>
    <td>555 77 854</td>
  </tr>
  <tr>
    <td>555 77 855</td>
  </tr>
</table>
</body>
</html>

```


Results in:- “Internet Explorer” like as:-



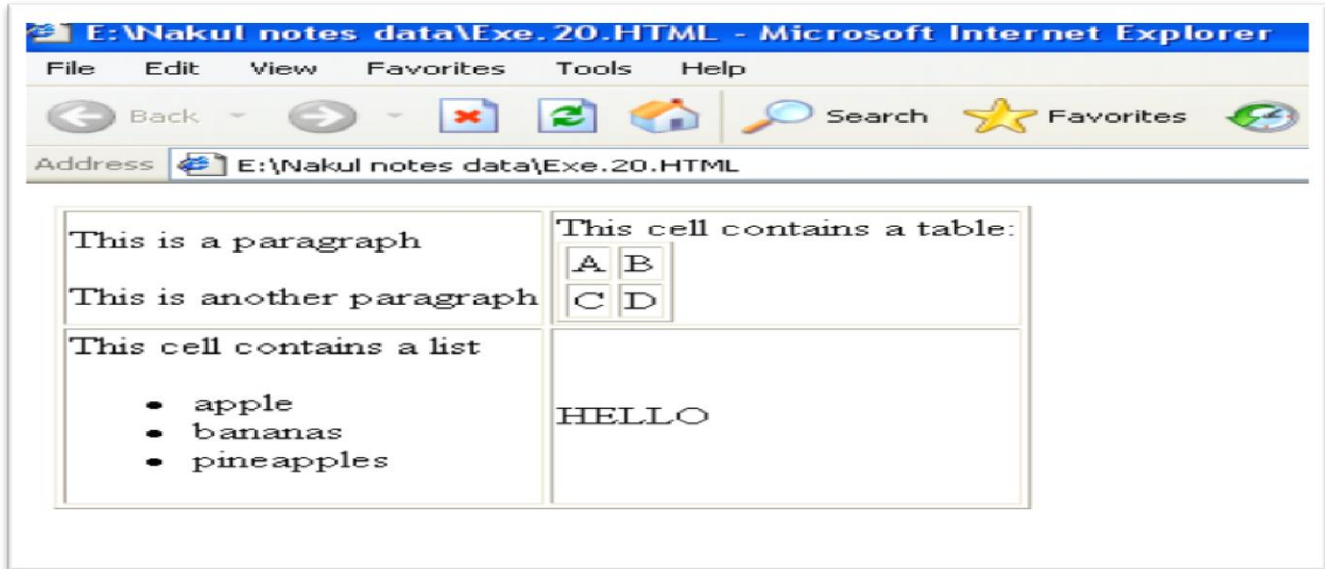
Example of: Table with Listing tag in “Notepad” like as:-



```

<html>
<body>
<table border="1">
    <tr>
    <td>
    <p> This is a paragraph</p>
    <p>This is another paragraph</p>
    </td>
    <td>This cell contains a table:
    <table border="1"
    <tr>
    <td>A</td>
    <td>B</td>
    </tr>
    <tr>
    <td>C</td>
    <td>D</td>
    </tr>
    </table>
    </td>
    </tr>
    <tr>
    <td>This cell contains a list
    <ul>
    <li>apple</li>
    <li>bananas</li>
    <li>pineapples</li>
    </ul>
    <td>HELLO</td>
    </tr>
</table>
</body>
</html>
  
```

Results in:- “Internet Explorer” like as:-



Example of: Table Background & Images tag in “Notepad” like as:-

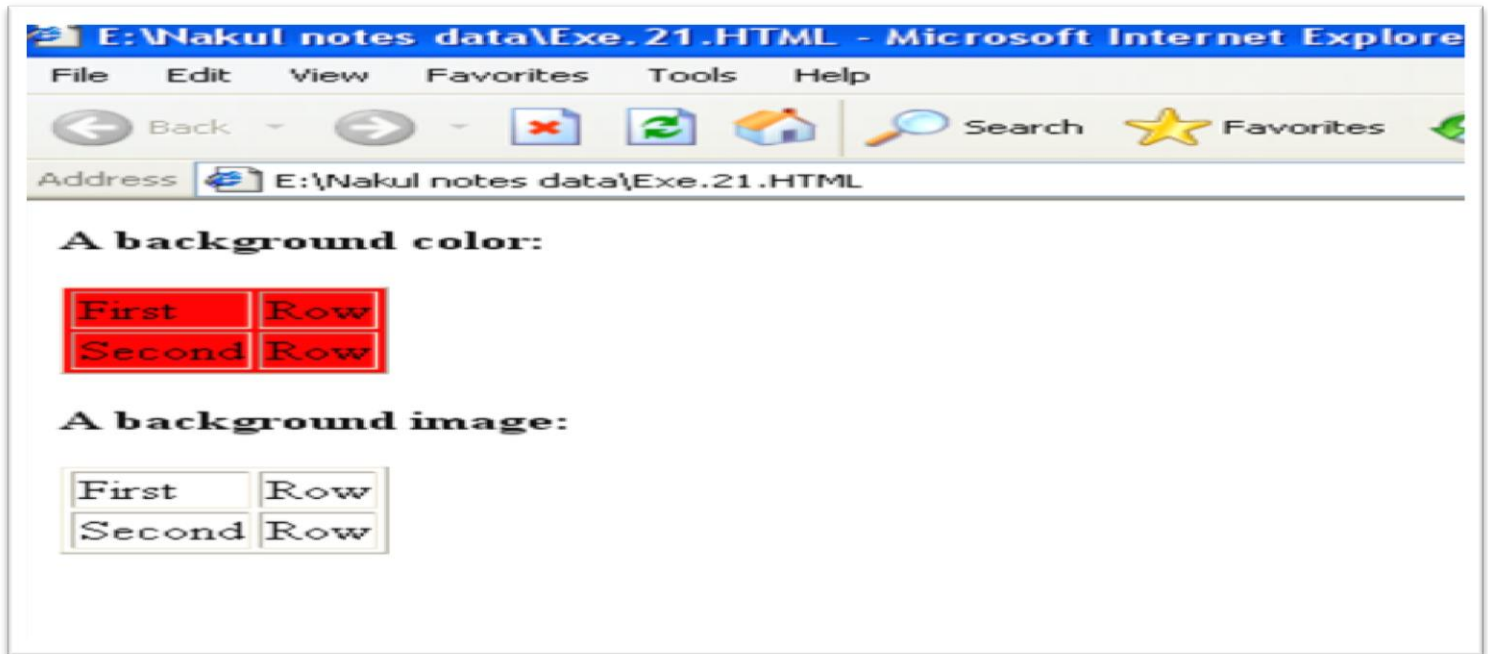
```
Exe.21 - Notepad
File Edit Format View Help
<html>
<body>

<h4>A background color:</h4>
<table border="1"
bgcolor="red">
    <tr>
        <td>First</td>
        <td>Row</td>
    </tr>
<tr>
    <td>Second</td>
    <td>Row</td>
</tr>
</table>

<h4>A background image:</h4>
<table border="1"
background="bgdesert.jpg">
    <tr>
        <td>First</td>
        <td>Row</td>
    </tr>
<tr>
    <td>Second</td>
    <td>Row</td>
</tr>
</table>

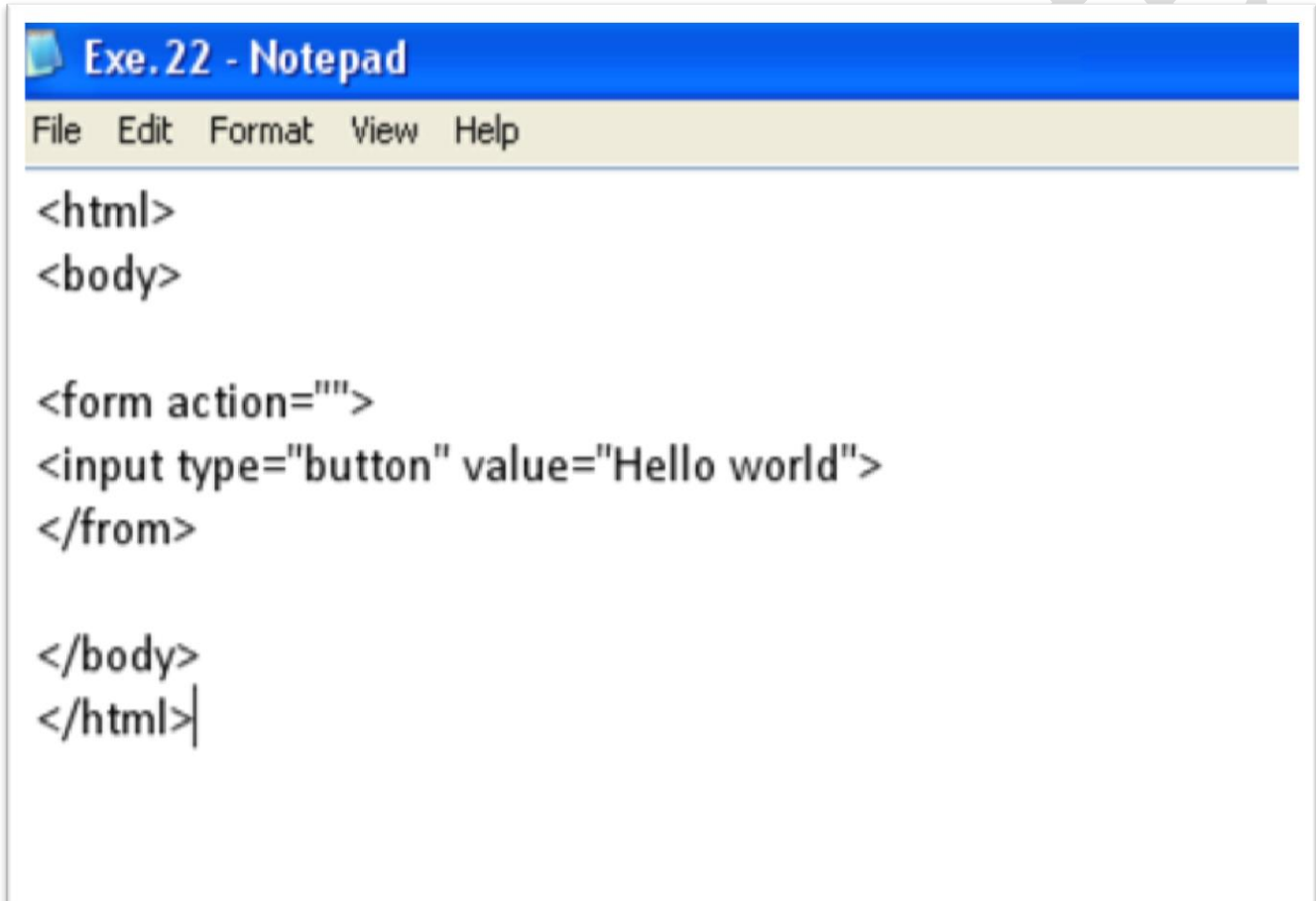
</body>
</html>
```

Results in:- “Internet Explorer” like as:-



Lesson – 10

Example of: Button Inserting tag in “Notepad” like as:-

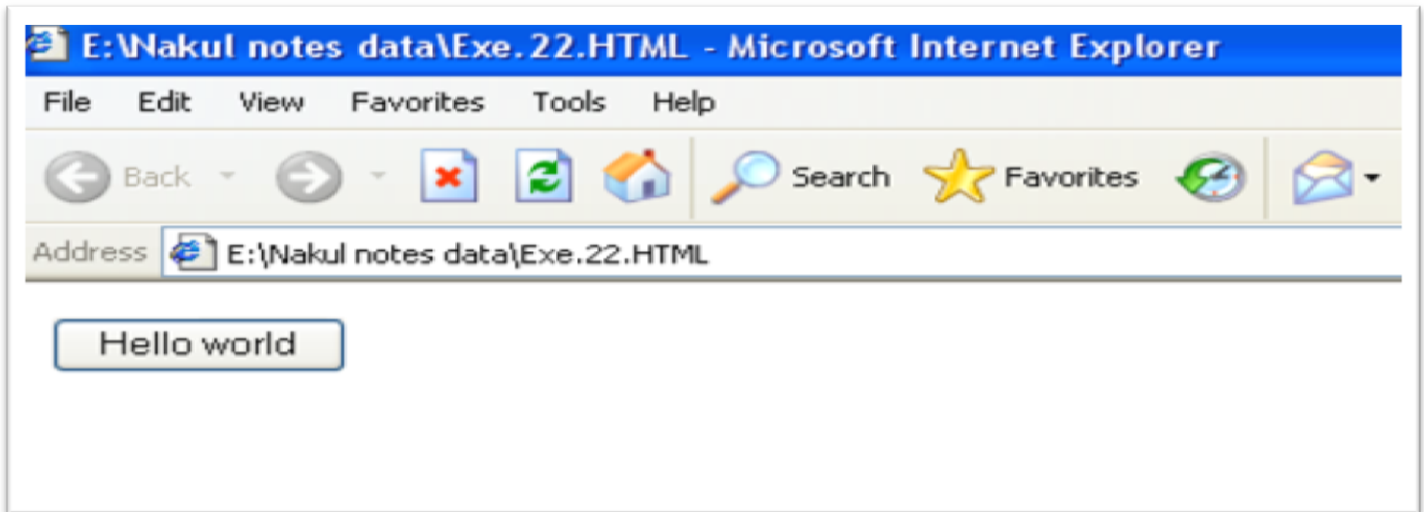


```
<html>
<body>

<form action="">
<input type="button" value="Hello world">
</form>

</body>
</html>
```

Results in:- “Internet Explorer” like as:-



Example of: Form Fields Designing tag in “Notepad” like as:-

```
Exe.23 - Notepad
File Edit Format View Help
<html>
<body>

<fieldset>
<legend>
Health information
</legend>
<form action="">
Height <input type="text" size="3">
Weight <input type="text" size="3">
</form>
</fieldset>

<p>
If there is no border around the input form, your browser is too old.
</p>

</body>
</html>
```

Results in:- “Internet Explorer” like as:-

