



DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING

**Title: Creating, Displaying HTML Pages using
Basic HTML tags**

WEB PROGRAMMING LAB
CSE 302



GREEN UNIVERSITY OF BANGLADESH

1 Objective(s)

- To be familiar with HTML.
- Creating and displaying HTML pages using basic tags.
- Multimedia attachment to web pages.
- To learn text formatting tags in HTML.

2 Problem analysis

This manual will help the students to learn the basic HTML tags that will help to create web pages. HTML tags like heading, paragraph, link, image, line break, formatting text, multimedia attachment will help to design a basic web page.

3 Structure of HTML Page

- The entire web page is enclosed within `<html>` and `</html>`
- Within these tags two distinct sections are created **head** and **body**

- **Head:**

```
<head>
```

```
<title> ..... </title>
```

```
</head>
```

- **Body:** indicate the start and end of main body of textual information

```
<body>
```

```
.....
```

```
.....
```

```
</body>
```

- HTML files have **.html** extension

```
1 Example:
2 <!DOCTYPE html>
3 <html>
4     <head>
5         <title>Home Page</title>
6     </head>
7
8 <body>
9     Welcome to all
10 </body>
11 </html>
```

4 HTML Tags

4.1 HTML Headings

HTML headings are defined with the `<h1>` to `<h6>` tags.

```
Home.html X
Home.html > html > boby
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title> Home Page</title>
5   </head>
6   <boby>
7     Welcome to all
8   </boby>
9 </html>
```

Figure 1: First HTML File

```
1 Example:
2 <!DOCTYPE html>
3 <html>
4   <head>
5     <title>Home Page</title>
6
7   </head>
8
9   <body>
10    <h1>Heading 1</h1>
11    <h2>Heading 2</h2>
12    <h3>Heading 3</h3>
13    <h4>Heading 4</h4>
14    <h5>Heading 5</h5>
15    <h6>Heading 6</h6>
16
17   </body>
18 </html>
```

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title> Home Page</title>
5   </head>
6   <boby>
7     <h1>Heading 1</h1>
8     <h2>Heading 2</h2>
9     <h3>Heading 3</h3>
10    <h4>Heading 4</h4>
11    <h5>Heading 5</h5>
12    <h6>Heading 6</h6>
13   </boby>
14 </html>
```

Figure 2: HTML Headings

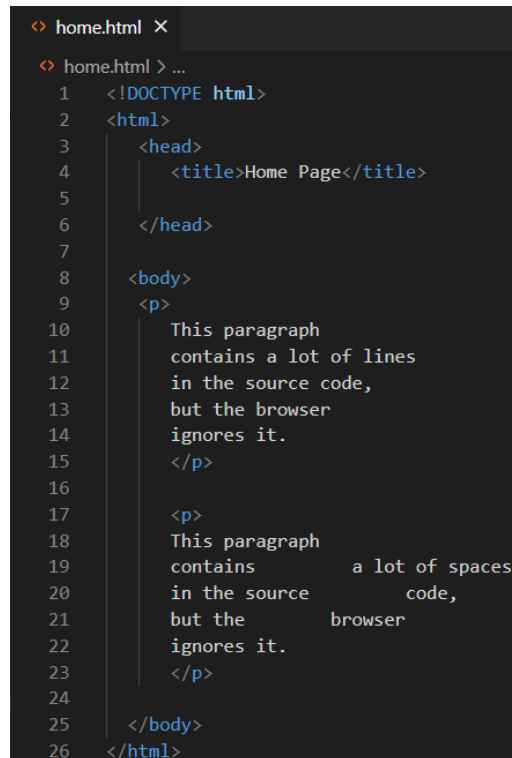
4.2 HTML Paragraphs

HTML paragraphs are defined with the `<p>` tag.

```

1 Example:
2 <!DOCTYPE html>
3 <html>
4   <head>
5     <title>Home Page</title>
6
7   </head>
8
9   <body>
10    <p>
11      This paragraph
12      contains a lot of lines
13      in the source code,
14      but the browser
15      ignores it.
16    </p>
17
18    <p>
19      This paragraph
20      contains          a lot of spaces
21      in the source      code,
22      but the          browser
23      ignores it.
24    </p>
25
26  </body>
27 </html>

```



```

home.html X
home.html > ...
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Home Page</title>
5
6    </head>
7
8    <body>
9      <p>
10        This paragraph
11        contains a lot of lines
12        in the source code,
13        but the browser
14        ignores it.
15      </p>
16
17      <p>
18        This paragraph
19        contains          a lot of spaces
20        in the source      code,
21        but the          browser
22        ignores it.
23      </p>
24
25    </body>
26  </html>

```

Figure 3: HTML Paragraph tag

4.3 HTML single line break

- The `
` tag inserts a single line break.

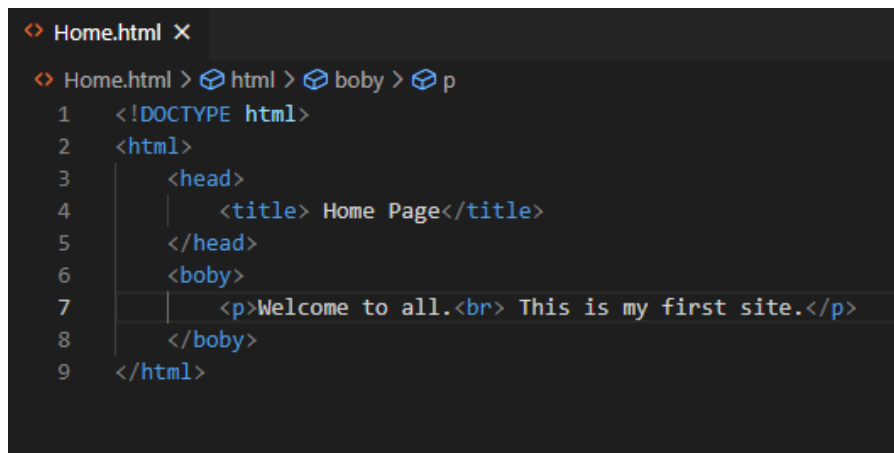


Figure 4: HTML single line break tag

4.4 HTML Formatting text

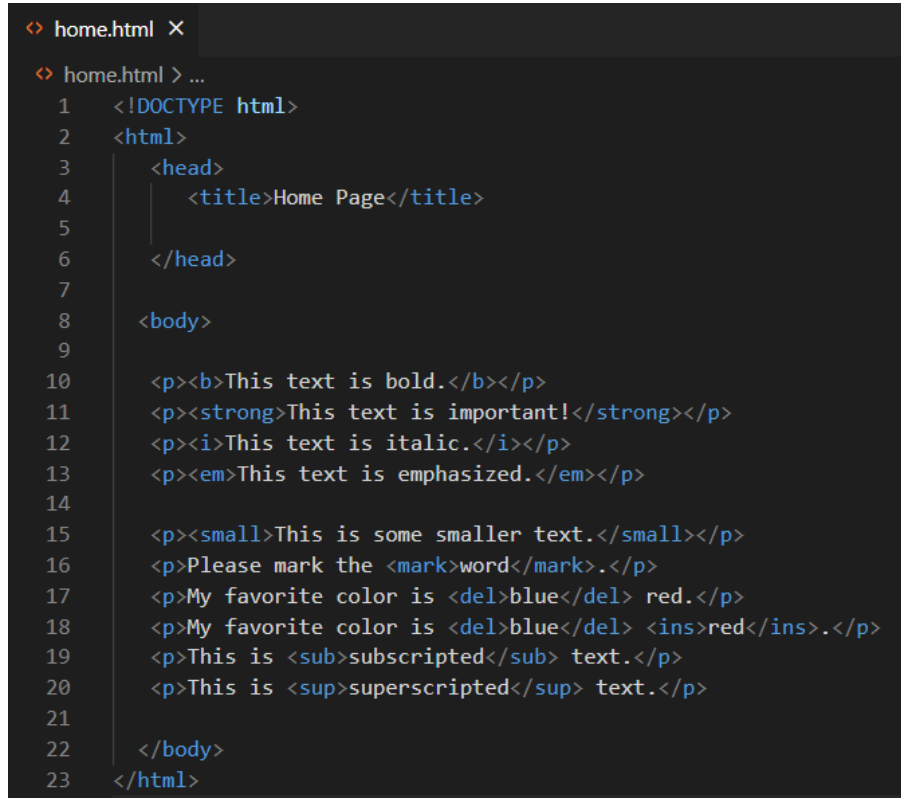
- `` - Bold text
- `` - Important text
- `<i>` - Italic text
- `` - Emphasized text
- `<mark>` - Marked text
- `<small>` - Smaller text
- `` - Deleted text
- `<ins>` - Inserted text
- `<sub>` - Subscript text
- `<sup>` - Superscript text

```
1 Example:
2 <!DOCTYPE html>
3 <html>
4   <head>
5     <title>Home Page</title>
6
7   </head>
8
9   <body>
10
11     <p><b>This text is bold.</b></p>
12     <p><strong>This text is important!</strong></p>
13     <p><i>This text is italic.</i></p>
14     <p><em>This text is emphasized.</em></p>
15
16     <p><small>This is some smaller text.</small></p>
17     <p>Please mark the <mark>word</mark>.</p>
```

```

18 <p>My favorite color is <del>blue</del> red.</p>
19 <p>My favorite color is <del>blue</del> <ins>red</ins>.</p>
20 <p>This is <sub>subscripted</sub> text.</p>
21 <p>This is <sup>superscripted</sup> text.</p>
22
23 </body>
24 </html>

```



```

<> home.html X
<> home.html > ...
1  <!DOCTYPE html>
2  <html>
3    <head>
4      <title>Home Page</title>
5    </head>
6  </head>
7  <body>
8
9    <p><b>This text is bold.</b></p>
10   <p><strong>This text is important!</strong></p>
11   <p><i>This text is italic.</i></p>
12   <p><em>This text is emphasized.</em></p>
13
14   <p><small>This is some smaller text.</small></p>
15   <p>Please mark the <mark>word</mark>.</p>
16   <p>My favorite color is <del>blue</del> red.</p>
17   <p>My favorite color is <del>blue</del> <ins>red</ins>.</p>
18   <p>This is <sub>subscripted</sub> text.</p>
19   <p>This is <sup>superscripted</sup> text.</p>
20
21   </body>
22 </html>
23

```

Figure 5: Text Formatting using HTML tags

4.5 HTML Links: Hyperlinks

- `<a>` tag defines a hyperlink.
- You can click on a link and jump to another document.
- The most important attribute of the `<a>` element is the **href** attribute, which indicates the link's destination.

Link to an Email Address

- Use **mailto:** inside the **href** attribute to create a link that opens the user's email program

```

1 Example:
2 <!DOCTYPE html>
3 <html>
4   <head>
5     <title>Home Page</title>
6
7   </head>
8
9   <body>

```

```

10      <p>Visit <a href="https://green.edu.bd/">Green University of Bangladesh</a>
11      <p>Send Email to <a href="mailto:tanpia@cse.green.edu.bd">Tanpia Tasnim</a>
12
13  </body>
14 </html>

```

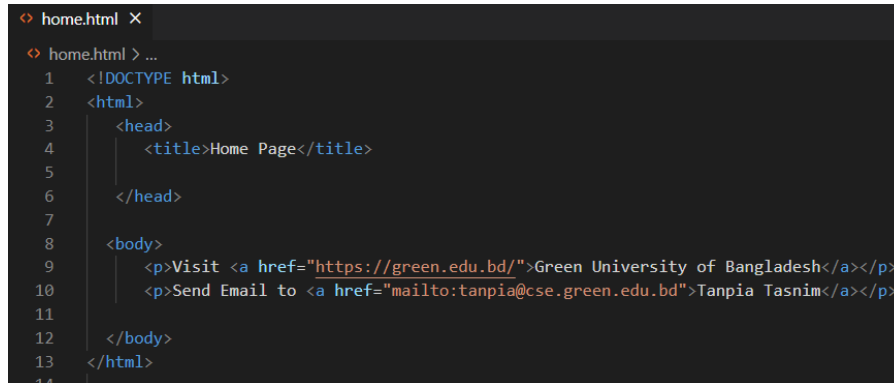


Figure 6: HTML Hyperlink tags

4.6 HTML Multimedia Attachment

4.6.1 Adding images to web pages

- **** tag is used to add images to web pages.
- **SRC** attribute of the **** tag is used to indicate the source of the image.
- We can add an image by

Attributes of **** tag:

- **Height and width:**

- **Alt attribute:**

- **Align attribute:**

 Left, right, top, bottom, middle
- We can put images between **<a>** and **** tags instead of text to link other documents or portions of the page.


```

1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Home Page</title>
5
6   </head>
7

```

```

8 <body>
9 <p>Adding images to web pages <br>
10 
11 </p><br>
12 <p>Using an image as a link,<br>
13 <a href="http://cse.green.edu.bd/">
14 
15 </a>
16 </p>
17
18 </body>
19 </html>

```

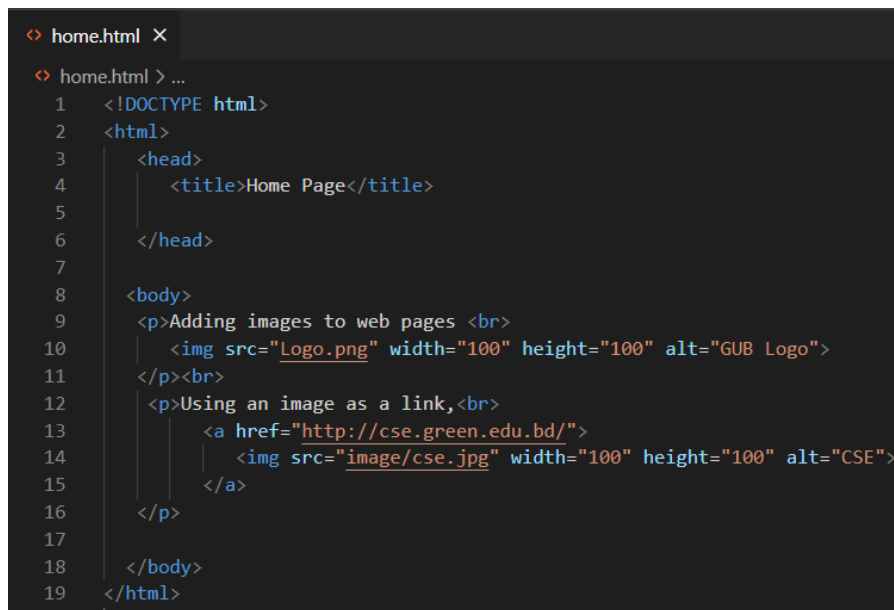


Figure 7: Adding image to a webpage

4.6.2 Adding video to web page

- The **<video>** tag is used to add a video to a web page.
- This tag is provided in HTML5
- The **src** attribute of the **<video>** tag is used to indicate the source of the video.
- We can add a video to our page as
<video src="abc.mp4"></video>

Attributes of <video> tag:

- Auto-play
- Controls
- Loop

```

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Home Page</title>

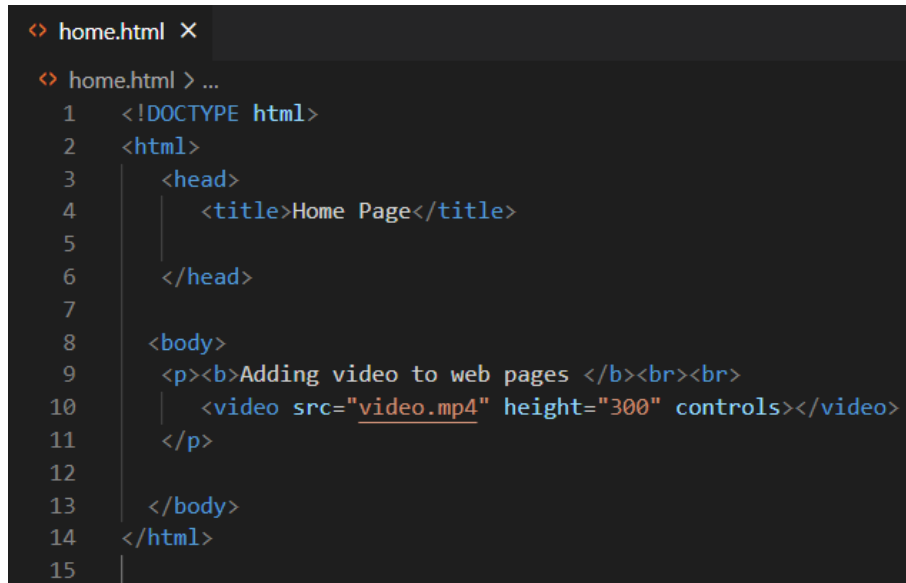
```



```

6
7     </head>
8
9 <body>
10    <p><b>Adding video to web pages </b><br><br>
11        <video src="video.mp4" height="300" controls></audio>
12    </p>
13
14 </body>
15 </html>

```



```

home.html X
home.html > ...
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>Home Page</title>
5      </head>
6
7      <body>
8          <p><b>Adding video to web pages </b><br><br>
9              <video src="video.mp4" height="300" controls></video>
10         </p>
11     </body>
12 </html>
13
14
15

```

Figure 8: Adding video to a webpage

4.6.3 Adding audio to web page

- The `<audio>` tag is used to add a audio to a web page.
- This tag is provided in HTML5
- The `src` attribute of the `<audio>` tag is used to indicate the source of the audio.
- We can add a audio to our page as
`<audio src="abc.mp3">`

Attributes of `<audio>` tag:

- Auto-play
- Controls
- Loop

```

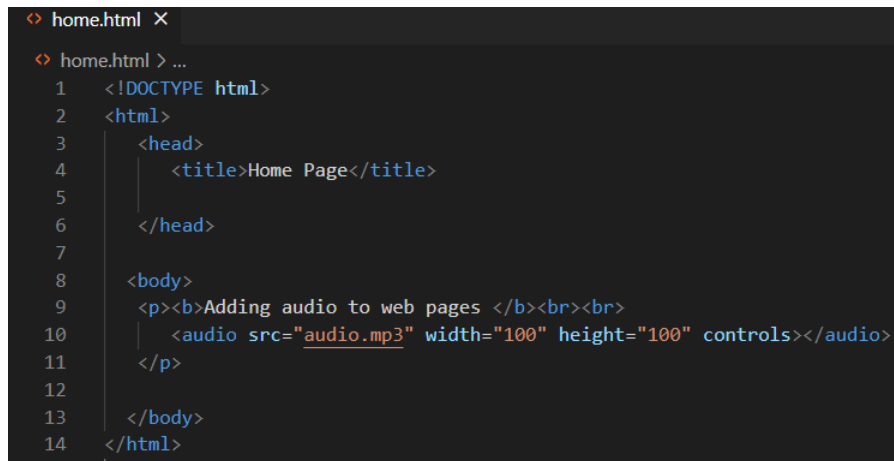
1
2 <!DOCTYPE html>
3 <html>
4     <head>
5         <title>Home Page</title>
6
7     </head>

```

```

8
9 <body>
10 <p><b>Adding audio to web pages </b><br><br>
11 <audio src="audio.mp3" width="100" height="100" controls></audio>
12 </p>
13
14 </body>
15 </html>

```



```

home.html X
home.html > ...
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <title>Home Page</title>
5   </head>
6   <body>
7     <p><b>Adding audio to web pages </b><br><br>
8     <audio src="audio.mp3" width="100" height="100" controls></audio>
9   </p>
10  </body>
11  </html>

```

Figure 9: Adding audio to a webpage

5 Input/Output

Output of the program is given below. (Figure 10, 11)

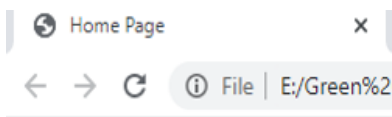
6 Discussion & Conclusion

Based on the focused objective(s) to understand about creating a website using HTML the additional lab exercise made me more confident towards the fulfilment of the objectives(s).

7 Lab Task(Please implement yourself and show the output to the instructor)

Create a html page named as "LabTask1.html". Then you need to show the following sample output windows. In these windows you need to use the following tags.

- Set the title of the page as "Basic Html Tags"
- Within the body perform the following
 - Different heading tags (h1 to h6)
 - Paragraph
 - Horizontal line
 - Line Break
 - Hyperlink tags. You have to create a link to visit the website of Green University of Bangladesh. Besides this, you have to create a link to your own email address the same as "Sample Output Window 1". (Figure 12)



Heading 1

Heading 2

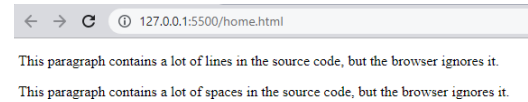
Heading 3

Heading 4

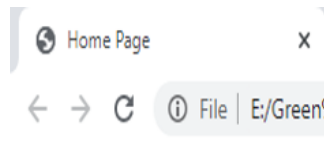
Heading 5

Heading 6

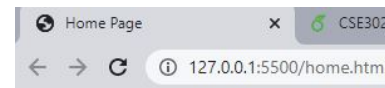
(a) Output of HTML Heading



(b) Output of HTML Paragraph



(c) Output of single line break



(d) Output of HTML Text Formatting



(e) Output of HTML Hyperlink

Figure 10: Creating, Displaying HTML page using HTML tags

- In **Sample Output Window 2**, you must use the following tags. (**Figure 13**) **Bold, italic, sub-script, super-script, emphasized, strike tags.** You may also need other tags to find the accurate output window.

Adding images to web pages



Using an image as a link,



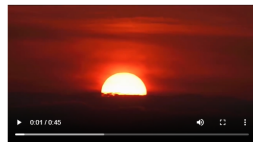
(a) Output of adding image to a web page

Adding audio to web pages



(b) Output of adding audio to a web page

Adding video to web pages



(c) Output of adding video to a web page

Figure 11: Multimedia Attachment

Sample Output Window 1



Basic HTML Tags

Heading H1

Heading H2

Heading H3

Heading H4

Heading H5

Heading H6

This is a paragraph. HTML is the standard markup language for Web pages. With HTML you can create your own Website. HTML is easy to learn - You will enjoy it!
If you want to learn more about the course, please click the link [Green University of Bangladesh](#)
or, send an email to [Tarepia Tasnim](#)

(a) Lab Task 1

Sample Output Window 2:

Logical style

This is **bold** This is bold
This is big font This is big font
This is *italic* This is italic
Was ~~\$50~~; now \$40 Was \$50; now \$40
This is small This is small
H₂O H₂O
May 5th 2005 May 5th 2005
`fixed-width font fixed-width font`
This is ~~strike-through~~ This is strike.
This is underlined This is underlined
 $y = m * x + b$ $y = m * x + b$
This is *emphasized*. This is emphasized.
This is **strong**. This is strong.

(b) Lab Task 2

8 Lab Exercise (Submit as a report)

Report will be given in the next lab class.

9 Policy

Copying from internet, classmate, seniors, or from any other source is strongly prohibited. 100% marks will be *deducted* if any such copying is detected.