

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

WEB TECHNOLOGY LAB

BCSL504

EXPERIMENT – 01
BASIC HTML TAGS

5th Semester

HTML5 • Headings • Paragraph • Blockquote
Preformatted Text • Subscript • Superscript

Prepared by Search Creators

Learn • Practice • Execute

1. Experiment 01

Aim

Develop an HTML page named `Myfirstwebpage.html` to demonstrate the use of basic HTML tags with suitable content.

2. Requirements

- Search Creators Compiler / Code Studio (Recommended)

<https://searchcreators.org/compiler/>

- Modern web browser such as Chrome, Edge or Firefox
- Internet connection for accessing Search Creators Compiler
- Alternatively, VS Code, Notepad or another suitable HTML editor
- Basic knowledge of HTML

3. Search Creators Compiler

Run This Program on Search Creators

You can practice and execute the Web Technology Lab program using the **Search Creators Compiler / Code Studio**.

Open Search Creators Compiler

<https://searchcreators.org/compiler/>

Use the online coding environment to write the program, execute it and verify the output while practising the lab experiment.

4. Problem Statement

Develop the HTML page:

`Myfirstwebpage.html`

The webpage should demonstrate the following:

1. Set the page title as **My First Web Page**.

2. Display the moving text:

Basic HTML Tags

3. Display heading tags from `h1` to `h6`.
4. Demonstrate a paragraph.
5. Demonstrate a horizontal line.
6. Demonstrate a line break.
7. Demonstrate a block quotation.
8. Demonstrate preformatted text using `pre`.
9. Demonstrate text formatting such as bold, underline, subscript and superscript.

5. Introduction to HTML

HTML stands for:

HyperText Markup Language

HTML is the standard markup language used to create and structure webpages.

HTML uses tags to define different parts of a webpage.

Examples include:

- Headings
- Paragraphs
- Links
- Images
- Tables
- Forms

6. Basic Structure of HTML

A basic HTML document has the following structure:

```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5     <title>Page Title</title>
6 </head>
7
8 <body>
9
10     Webpage content goes here.
11
12 </body>
13
14 </html>
```

7. Important HTML Tags

HTML Tag	Purpose
<html>	Defines the HTML document.
<head>	Contains information about the webpage.
<title>	Defines the browser tab title.
<body>	Contains visible webpage content.
<h1> to <h6>	Creates headings of different levels.
<p>	Defines a paragraph.
<hr>	Creates a horizontal line.
 	Creates a line break.
<blockquote>	Represents a block quotation.
<pre>	Displays preformatted text.
	Displays bold text.
<u>	Displays underlined text.
<sub>	Displays subscript text.
<sup>	Displays superscript text.

8. HTML Program

Important

Create the following file:

Myfirstwebpage.html

You can create and execute this program using the **Search Creators Compiler / Code Studio**:

<https://searchcreators.org/compiler/>

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5     <meta charset="UTF-8">
6     <title>My First Web Page</title>
7 </head>
8
9 <body>
10
11     <!-- Moving Text -->
12     <marquee>
13         <h2>Basic HTML Tags</h2>
14     </marquee>
15
16     <hr>
17
18     <!-- Heading Tags -->
19     <h1>This is Heading 1</h1>
20     <h2>This is Heading 2</h2>
21     <h3>This is Heading 3</h3>
22     <h4>This is Heading 4</h4>
23     <h5>This is Heading 5</h5>
24     <h6>This is Heading 6</h6>
25
26     <hr>
27
28     <!-- Paragraph -->
29     <p>
30         HTML stands for HyperText Markup Language.
31         It is used to create and structure web pages.
32     </p>
33
34     <hr>
35
36     <!-- Line Break -->
37     <p>
38         Welcome to Web Technology Lab.<br>
39         This is BCSL504.<br>
40         We are learning Basic HTML Tags.
41     </p>
42
43     <hr>
44
45     <!-- Block Quote -->
46     <blockquote>
```

```
47     HTML is the standard markup language
48     used to create web pages.
49 </blockquote>
50
51 <hr>
52
53 <!-- Preformatted Text -->
54 <pre>
55 Name : Student Name
56 Course : BCSL504
57 Subject : Web Technology Lab
58 Experiment : 01
59 </pre>
60
61 <hr>
62
63 <!-- Bold Text -->
64 <p>
65     <b>This text is Bold.</b>
66 </p>
67
68 <!-- Underlined Text -->
69 <p>
70     <u>This text is Underlined.</u>
71 </p>
72
73 <!-- Subscript -->
74 <p>
75     Water Formula: H<sub>2</sub>O
76 </p>
77
78 <!-- Superscript -->
79 <p>
80     Mathematical Expression:
81     X<sup>2</sup> + Y<sup>2</sup>
82 </p>
83
84 </body>
85
86 </html>
```

9. Program Explanation

9.1 DOCTYPE Declaration

```
1 <!DOCTYPE html>
```

It tells the browser that the document is an HTML5 document.

9.2 Title Tag

```
1 <title>My First Web Page</title>
```

The `title` element defines the text displayed on the browser tab.

9.3 Moving Text

```
1 <marquee>
2   <h2>Basic HTML Tags</h2>
3 </marquee>
```

It displays the text:

Basic HTML Tags

as moving text.

Important

The experiment requires moving text. Therefore, `marquee` is shown for syllabus-oriented laboratory practice. The element is obsolete in modern HTML and should not be used for modern production websites.

9.4 Heading Tags

HTML provides six heading levels:

```
1 <h1>This is Heading 1</h1>
2 <h2>This is Heading 2</h2>
3 <h3>This is Heading 3</h3>
4 <h4>This is Heading 4</h4>
5 <h5>This is Heading 5</h5>
6 <h6>This is Heading 6</h6>
```

`h1` represents the highest heading level and `h6` represents the lowest heading level.

9.5 Paragraph Tag

```
1 <p>
2   HTML stands for HyperText Markup Language.
3 </p>
```

The `p` element defines a paragraph.

9.6 Horizontal Line

```
1 <hr>
```

The `hr` element represents a horizontal thematic break.

9.7 Line Break

```
1 <br>
```

The `br` element inserts a line break.

Example:

```
1 Welcome to Web Technology Lab.<br>
2 This is BCSL504.
```

9.8 Blockquote

```
1 <blockquote>
2     HTML is the standard markup language
3     used to create web pages.
4 </blockquote>
```

The `blockquote` element represents a block of quoted content.

9.9 Preformatted Text

```
1 <pre>
2 Name : Student Name
3 Course : BCSL504
4 Experiment : 01
5 </pre>
```

The `pre` element preserves spaces and line breaks in the text.

9.10 Bold Text

```
1 <b>This text is Bold.</b>
```

The `b` element displays the text in bold.

9.11 Underline

```
1 <u>This text is Underlined.</u>
```

The `u` element displays underlined text.

9.12 Subscript

```
1 H<sub>2</sub>O
```

Output:

$$H_2O$$

The `sub` element displays text below the normal baseline.

9.13 Superscript

```
1 X<sup>2</sup> + Y<sup>2</sup>
```

Output:

$$X^2 + Y^2$$

The `sup` element displays text above the normal baseline.

10. How to Execute the Program

Run This Program on Search Creators

Recommended Method – Search Creators Compiler

Open:

Search Creators Compiler / Code Studio

<https://searchcreators.org/compiler/>

Practice the program using the online coding environment and verify the webpage output.

11. Procedure

1. Open the **Search Creators Compiler / Code Studio**:

<https://searchcreators.org/compiler/>

2. Create a new HTML file or web project in the coding environment.

3. Name the HTML file:

Myfirstwebpage.html

4. Enter the given HTML program in the editor.

5. Save the program.

6. Run or preview the HTML page.

7. Observe the browser output.

8. Verify that the browser tab displays:

My First Web Page

9. Verify the moving text:

Basic HTML Tags

10. Verify all heading levels from h1 to h6.

11. Verify the paragraph, horizontal line and line break.

12. Verify the block quotation and preformatted text.

13. Verify bold and underlined text.

14. Verify the subscript output H_2O .

15. Verify the superscript expression $\text{X}^2 + \text{Y}^2$.

16. If required, the same program can alternatively be executed using VS Code, Notepad or another HTML editor and a web browser.

12. Expected Output

The browser should display content similar to the following:

Expected Browser Output

Basic HTML Tags

This is Heading 1

This is Heading 2

This is Heading 3

This is Heading 4

This is Heading 5

This is Heading 6

HTML stands for HyperText Markup Language. It is used to create and structure web pages.

Welcome to Web Technology Lab.

This is BCSL504.

We are learning Basic HTML Tags.

HTML is the standard markup language used to create web pages.

Name : Student Name

Course : BCSL504

Subject : Web Technology Lab

Experiment : 01

This text is Bold.

This text is Underlined.

Water Formula: H_2O

Mathematical Expression: $X^2 + Y^2$

13. Important Viva Questions

Viva Questions

1. What is HTML?

HTML stands for HyperText Markup Language. It is the standard markup language used to structure webpages.

2. What is the purpose of `<!DOCTYPE html>`?

It declares that the document uses HTML5.

3. What is the purpose of the `<title>` element?

It defines the title displayed on the browser tab.

4. What is the difference between `<head>` and `<body>`?

The head contains document-related information, whereas the body contains visible webpage content.

5. How many heading levels are available in HTML?

HTML provides six heading levels from h1 to h6.

6. Which is the highest heading level?

h1

7. Which is the lowest heading level?

h6

8. What is the use of the <p> element?

It defines a paragraph.

9. What is the use of
?

It inserts a line break.

10. What is the use of <hr>?

It represents a horizontal thematic break.

11. What is the use of <blockquote>?

It represents a block quotation.

12. What is the use of <pre>?

It displays preformatted text and preserves spaces and line breaks.

13. What is the use of <sub>?

It displays subscript text.

14. What is the use of <sup>?

It displays superscript text.

15. Which online coding platform can be used to practice this experiment?

Search Creators Compiler / Code Studio can be used:

<https://searchcreators.org/compiler/>

14. Quick Revision

Concept	Remember
HTML	HyperText Markup Language
Required Filename	Myfirstwebpage.html
Page Title	My First Web Page
Moving Text	Basic HTML Tags
Largest Heading	<h1>
Smallest Heading	<h6>
Paragraph	<p>
Line Break	
Horizontal Line	<hr>
Block Quotation	<blockquote>
Preformatted Text	<pre>
Bold	
Underline	<u>
Subscript	<sub>
Superscript	<sup>
Practice Platform	Search Creators Compiler
Website	searchcreators.org/compiler/

15. Result

Result

The HTML page Myfirstwebpage.html was developed successfully.

The use of basic HTML tags such as moving text, heading tags, paragraph, horizontal line, line break, blockquote, preformatted text, bold, underline, subscript and superscript was demonstrated successfully.

The program can be practised and executed using the **Search Creators Compiler / Code Studio**.

<https://searchcreators.org/compiler/>

END OF EXPERIMENT – 01

BCSL504 – Web Technology Lab

Prepared by Search Creators

Practice Online: searchcreators.org/compiler/
