

NEPAL COLLEGE OF INFORMATION TECHNOLOGY

Balkumari, Lalitpur

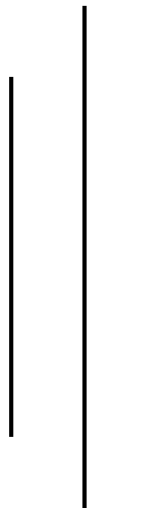


(Affiliated to Pokhara University)

A Lab Report

On

Subject:- Web Technology.....:



Lab Report # 1..

Title: - Introduction to HTML.....

Submitted by:

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Faculty: - IT

Semester: - 3rd

Submitted to:

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Department of IT

Submission Date: - 2023/05/09

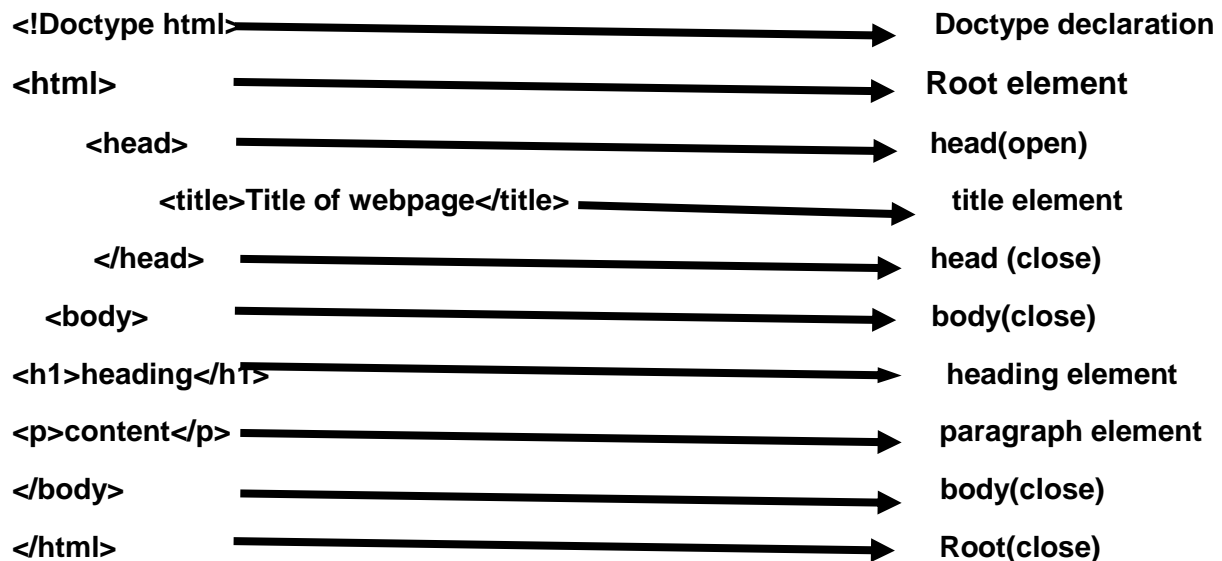
VS Code

Visual Studio Code, commonly known as VSCode, is a free and open-source code editor developed by Microsoft. It supports a wide range of programming languages, and features include debugging, syntax highlighting, and Git integration. Its popularity has made it one of the most widely used code editors among developers.

Theory: -

- HTML was developed by Tim Berners-Lee in late 1991s.
- HTML stands for Hypertext Markup Language. It is a formatting language which uses tags for preparing documents.
- The structure of HTML is based on a system of tags and attributes that define the elements of a web page.
- It is used to design the structure of the webpage using tags and elements, it provides basic frame to the webpage.
- There are many text editors that can be used to create HTML files and must be saved with extension .htm or .html but html is more preferred.
- The proper use of tags and attributes is essential for creating well-structured and accessible HTML documents.

Structure Of HTML:



HTML Editors:-

VS Code, Sublime text, Notepad, Notepad++, etc are some HTML editors.

HTML Tags: - HTML tags are like a set of keywords that defines how the page will be formatted and displayed in webpage. There are two types of tags they are

1. Paired tags: Tags that have both opening and closing tags.

Eg:<p>content<p>

2. Unpaired tags: Tags that have only single tags

Element Name	Description
	Used to bold text
	This is a logical tag, which tells the browser that the text is important.
<i>	This is a physical tag which is used to make text italic
<mark>	This tag is used to highlight text.
<u>.	This tag is used to underline text written between it
<tt>	This tag is used to appear a text in teletype. (not supported in HTML5)
<strike>	This tag is used to draw a strikethrough on a section of text. (Not supported in HTML5)
<sup>	It displays the content slightly above the normal line.
<sub>	It displays the content slightly below the normal line.
	This tag is used to display the deleted content.
<ins>	This tag displays the content which is added
<big>	This tag is used to increase the font size by one conventional unit.
<small>	This tag is used to decrease the font size by one unit from base font size.
 	This tag is used to add a line break.
<hr>	This tag is used to insert horizontal line.
<h1>	It is used to specify the heading.

<dfn>	It specifies the topic going to be defined.
<blockquote>	Used to specify if copied from other source.
<q>	This tag is used for short quotation.
<code>	This tag is used to define piece of computer code.
<kbd>	This tag is used to define keyboard input
<address>	Used to provide address of author/owner
<!--comment-->	>> Used to write comment in HTML
	This is a logical tag which is used to display content in italic.

HTML Elements:

1. <abbr> tag :

It defines abbreviation

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width,
7          initial-scale=1.0">
8      <title>lab1</title>
9  </head>
10 <body>
11     <h1>The abbreviation tag</h1>
12     <p>The <abbr title="Nepal College of Information And
13         Technology">NCIT</abbr> is the topmost IT college of Nepal</p>
14 </body>
15 </html>

```

2. <q>tag : Short quotation

```

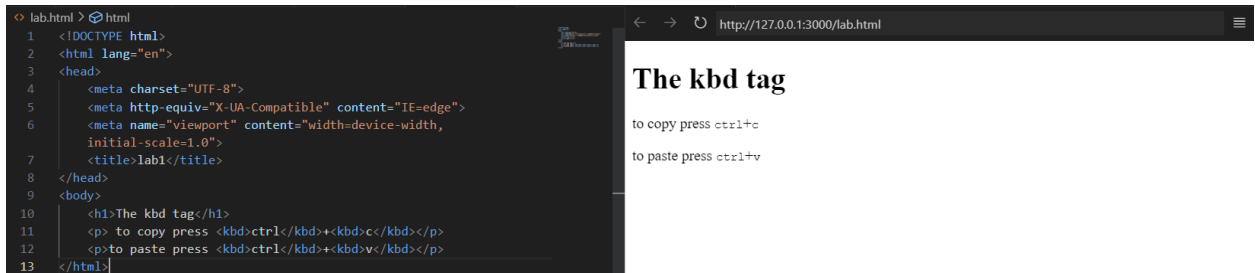
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width,
7          initial-scale=1.0">
8      <title>lab1</title>
9  </head>
10 <body>
11     <h1>The short quotation tag</h1>
12     <p>once the wise man said <q>a man's last smile is seen in his
13         marriage</q></p>
14 </body>
15 </html>

```

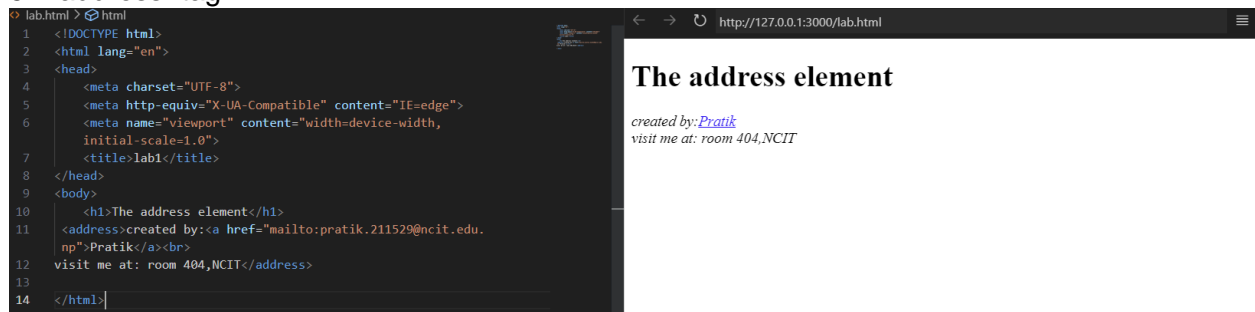
3. <code>tag : Specify piece of code



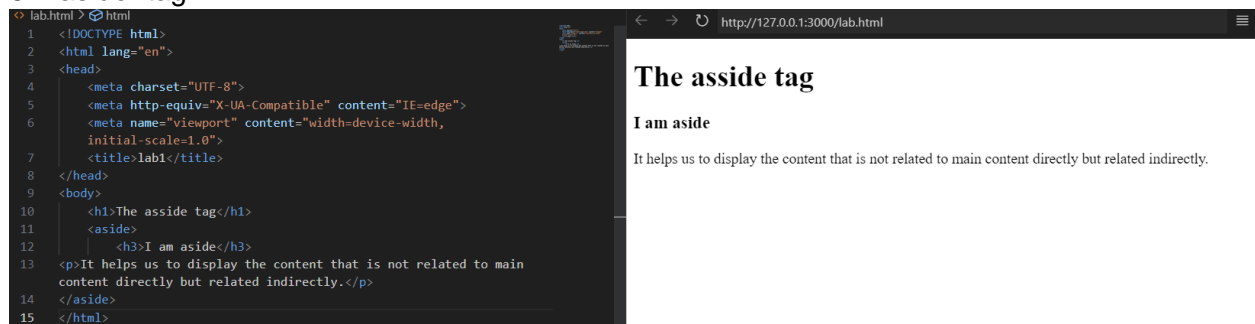
4. <code>tag : Defines keyboard input



5. <address>tag :



6. <aside>tag:



7. <article>tag: tag specifies independent, self-contained content.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width,
7     initial-scale=1.0">
8   <title>lab1</title>
9 </head>
10 <body>
11   <h1>The article tag</h1>
12   <article>
13     <h3>chatGPT</h3>
14     <p> ChatGPT is a large language model designed to understand
15       and respond to natural language input</p>
16   </article>
17 </body>
18 </html>
```

http://127.0.0.1:3000/lab.html

The article tag

chatGPT


ChatGPT is a large language model designed to understand and respond to natural language input

8. <cite>tag: Specifies the title of creative content.

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width,
7     initial-scale=1.0">
8   <title>lab1</title>
9 </head>
10 <body>
11   <h1>The cite tag</h1>
12   
15   <p><cite>MonaLisa</cite> by leonardo da Vinci</p>
16 </body>
17 </html>
```

http://127.0.0.1:3000/lab.html

The cite tag



MonaLisa by leonardo da Vinci

9.<meter>tag: used to represent the measurement of usage

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width,
7     initial-scale=1.0">
8   <title>lab1</title>
9 </head>
10 <body>
11   <h1>The meter element</h1>
12   <p>it displays the storage in disc</p>
13   <label for="storage">storage</label>
14   <meter id="storage" value="69" min="0" max="100"></meter>
15 </body>
16 </html>
```

http://127.0.0.1:3000/lab.html

The meter element

it displays the storage in disc

storage

11.<pre>tag: This tag is used to display content as we type in editor

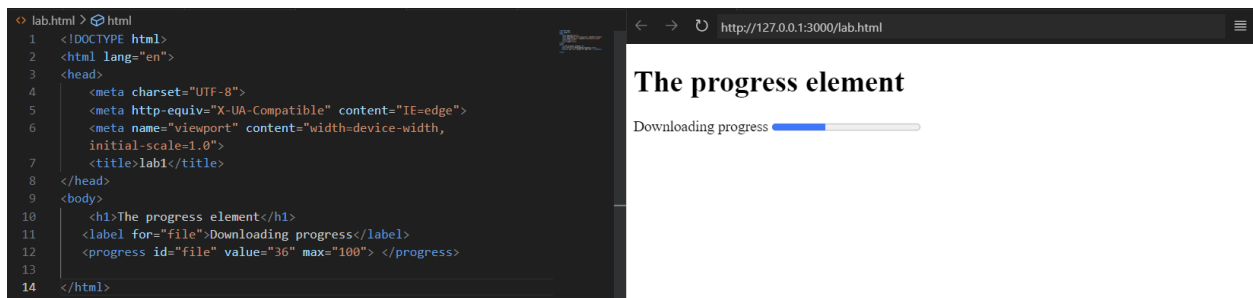
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width,
7     initial-scale=1.0">
8   <title>lab1</title>
9 </head>
10 <body>
11   <h1>The pre element</h1>
12   <pre>by using this tag
13     we can get the output
14     as we type in
15     code
16   </pre>
17 </body>
18 </html>
```

http://127.0.0.1:3000/lab.html

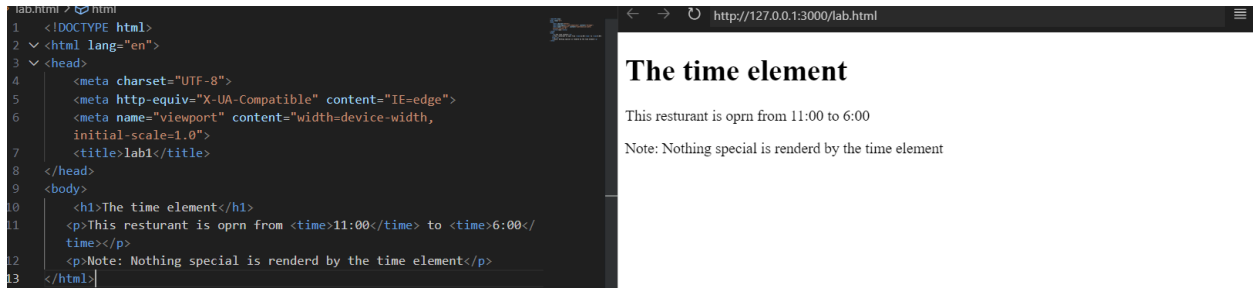
The pre element

by using this tag
we can get the output
as we type in
code

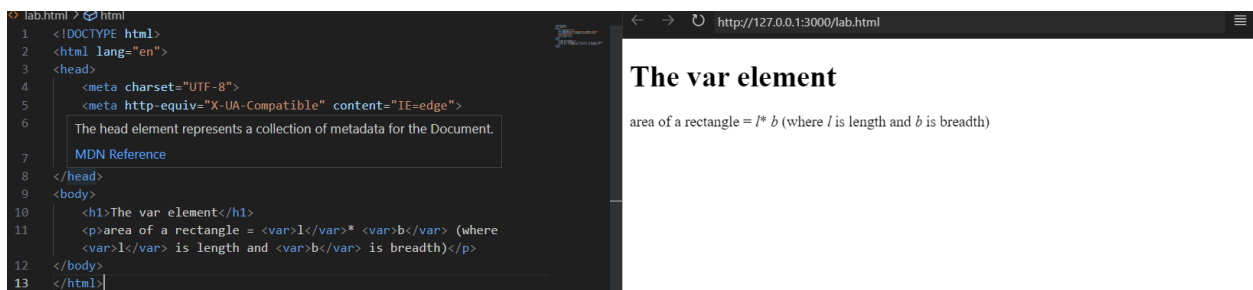
12.<progress>tag: It is used to specify the progress of a task



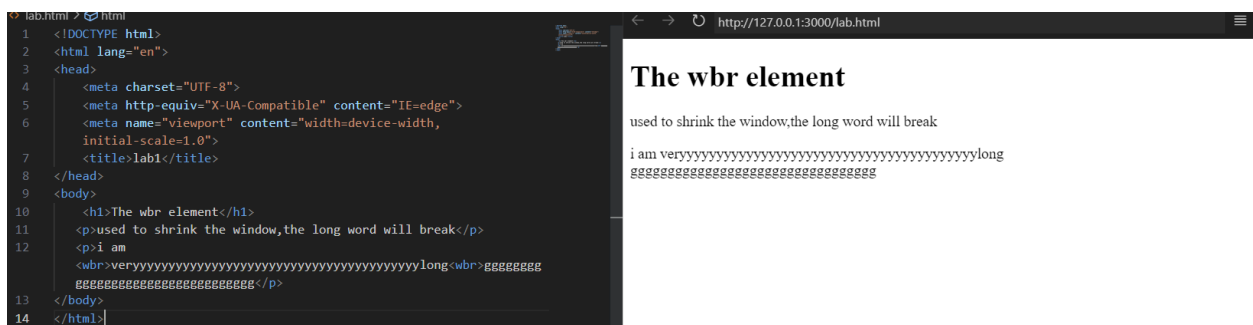
13.<time>tag: Used to specify time or date



14.<var>tag: used to define variables used



15.<wbr>tags : Used to specify where a word break is suitable in a dynamic page.



Question-1

sample.html > html > head > title

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width,
    initial-scale=1.0">
7   <title>lab1</title>
8 </head>
9 <body>
10   <h1>This is my 1<sup>st</sup> lab</h1><hr><hr>
11   <p>hello my name is <b>Pratik</b> <u>Chapagain</u>.</p>
12   <p>I live in <strong>Kathmandu</strong></p>
13   <p>I graduated from <mark>Nepal College of Information
    Technology</mark></p>
14   <p>I <small>am</small> 20 years old.</p>
15   <p>I love <del>red</del> black colour.</p>
16   <p>(a+b)<sup>2</sup>=a<sup>2</sup>+2ab+b<sup>2</sup></p>
17   <p>I went to drink H<sub>2</sub>O.</p>
18   <p>I am very <big>happy</big></p>
19   <p>I am very <small>sad</small></p>
20   <p>BIG dhamaka at NCIT get coupon just at <del>1000</del>400</
    p>
21   <p>I <br>am <br> the <br>professor <br> of <br>NCIT
    <br>College.</p>
22
23 </body>
24 </html>
```

← → ↺ http://127.0.0.1:3000/Pratik.html

This is my 1st lab

i am writing HTML code

Name:Pratik Chapagain
faculty:Science and Technology
Roll number:211529

My name is Pratik Chapagain and I am originally from syangja and currently living in kathmandu for study purpose.Currently I am reading Bachelors of IT enginnering in NCIT college.Currently I am in 3rd semester.I am a beginner in HTML and learning it. I want to learn to design a website may be personal or commercial.

Question 2

sample.html > html > body > p

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta http-equiv="X-UA-Compatible" content="IE=edge">
6   <meta name="viewport" content="width=device-width,
    initial-scale=1.0">
7   <title>lab1</title>
8 </head>
9 <body>
10   <h1>This is my 1<sup>st</sup> lab</h1><hr><hr>
11   <p>hello my name is <b>Pratik</b> <u>Chapagain</u>.</p>
12   <p>I live in <strong>Kathmandu</strong></p>
13   <p>I graduated from <mark>Nepal College of Information
    Technology</mark></p>
14   <p>I <small>am</small> 20 years old.</p>
15   <p>I love <del>red</del> black colour.</p>
16   <p>(a+b)<sup>2</sup>=a<sup>2</sup>+2ab+b<sup>2</sup></p>
17   <p>I went to drink H<sub>2</sub>O.</p>
18   <p>I am very <big>happy</big></p>
19   <p>I am very <small>sad</small></p>
20   <p>BIG dhamaka at NCIT get coupon just at <del>1000</del>400</
    p>
21   <p>I <br>am <br> the <br>professor <br> of <br>NCIT
    <br>College.</p>
22
23 </body>
24 </html>
```

← → ↺ http://127.0.0.1:3000/sample.html

This is my 1st lab

hello my name is **Pratik Chapagain**.

I live in **Kathmandu**

I graduated from **Nepal College of Information Technology**

I am 20 years old.

I love **red** black colour.

$(a+b)^2=a^2+2ab+b^2$

I went to drink H₂O.

I am very happy

I am very sad

BIG dhamaka at NCIT get coupon just at ~~1000~~400

I
am
the
professor
of
NCIT
College.