

WEB AND OPEN SOURCE TECHNOLOGIES

Practical File



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Experiment-1

Q.1 What is html?

- Html stands for HyperText Markup Language, which is a basically a scripting language.
- It is used for creating webpages which is used to accessed on the WWW via HTTPS.
- Along with html we use CSS text styling to format the webpages and make the websites.

Q.2 What is hypertext?

- Text with in the text is known as hypertext.
- This is basically used for linking one webpage within the another the webpage.

Q.3 What is markup ?

- It is a type of computer language used for applying layout and text formatting in the webpages & document.

Q.5 What are different types of html tags?

- <!DOCTYPE html>
- <html>
- <head>
- <title>
- <body>
- <h1>, heading tag
- <p>, paragraph tag
- , bold tag
- <i>

Experiment-2

- Creating a html webpage & using different html tags :

<!DOCTYPE html>

<html>

<head>

<title> My Page </title>

</head>

<body>

<h1> Creating my first WEBPAGE O_O , :) </h1>

<p> HELLO! WORLD </p>

<h2> The various tags used in html are:- </h2>

1. This is bold

<i>2. This is italic </i>

3. This emphasizing the text

<small>4. This small text </small>

<mark>5. This is mark
isn't it?</mark>

6. This is deleting

<p>7.This is inserting text <ins>word</ins>

<u>8. This is underlining the text!</u>

<strike>9. This is strikethrough </strike>

<p>10. This is break
 line</p>

</body>

</html>



Creating my first WEBPAGE O_O , :)

HELLO! WORLD

The various tags used in html are:-

1. This is bold
2. This is italic
3. This emphasizing the text
4. This small text
5. This is mark
6. This in deleting
7. This is inserting ~~text~~ word
8. This is underlining the text
9. This is strikethrough
10. This is break line



Creating my first WEBPAGE O_O , :)

HELLO! WORLD

The various tags used in html are:-

1. This is bold
2. This is italic
3. This emphasizing the text
4. This small text
5. This is mark
6. This in deleting
7. This is inserting ~~text~~ word
8. This is underlining the text
9. This is strikethrough
10. This is break line



Experiment-3

- Using tag attributes:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title>Attributes page</title>
```

```
</head>
```

```
<body style="background-color:palevioletred ;">
```

```
<center>
```

```
<!--1. <href> tag-->
```

```
<a href="https://www.taylorswift.com/" >
```

```

```

```
</a><br>
```

```
<br>
```

```
<h2 style="border:5px">This is Taylor Swift</h2><hr>
```

```

```

```
<h3 style="border: 8px;">This is New York City</h3><hr style="color: black;">
```

```
<h1 style="font-family: serif"><i>If you can dream it,<br>You can do it ! </i></h1>
```

```
<h1 style="font-size: 300%;"><i>If you can dream it,<br>You can do it ! </i></h1>
```

```
<hr>
```

```
<q>Hard time create great men <br>
```

```
Great men create good time <br>
```

```
Good time create weak men <br>
```

```
Weak men create hard time
```

```
</q>
```

```
<hr size="8px">
```

```
<address style="font-family: serif;">
```

developed at:

IT Lab-310

Block-1

UIET, Panjab University

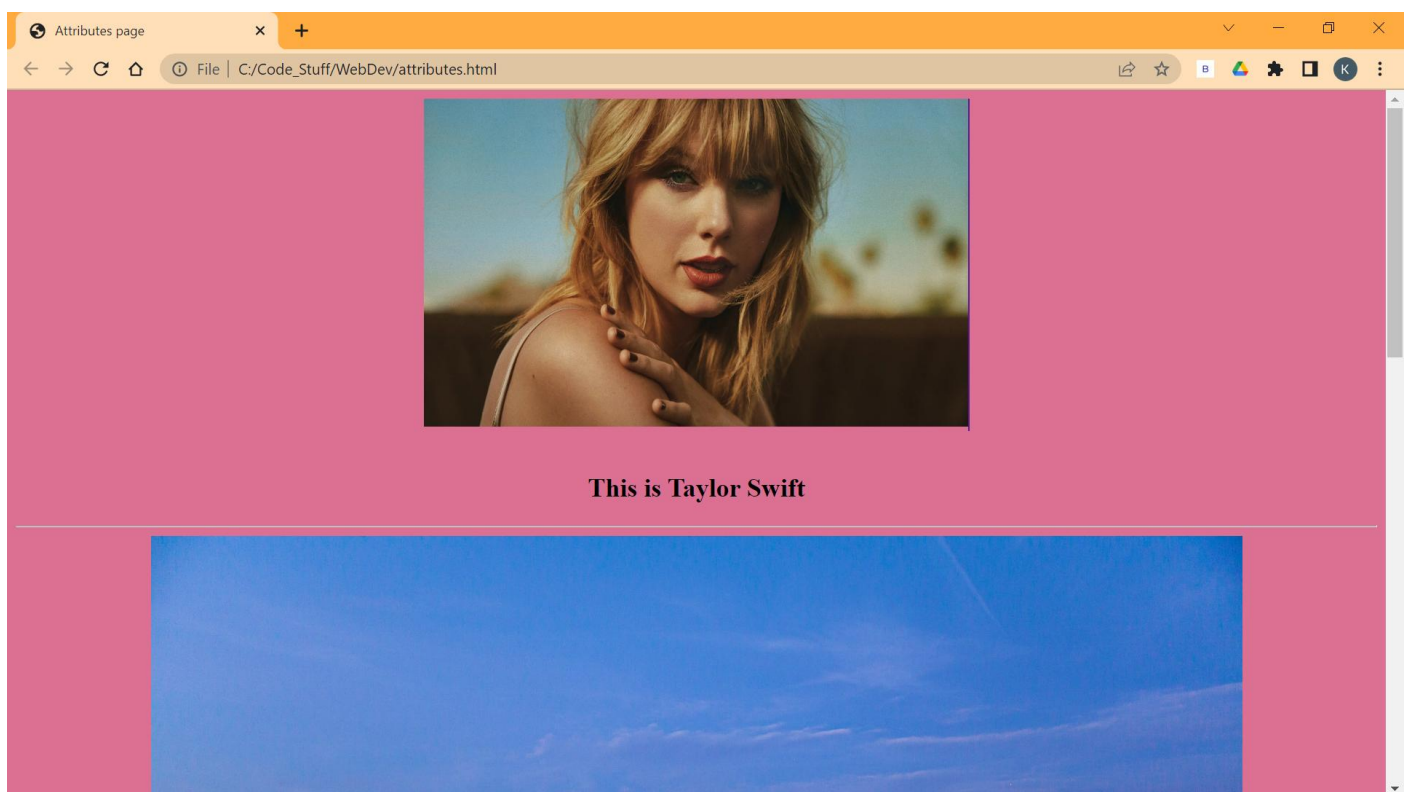
Chandigarh-160014

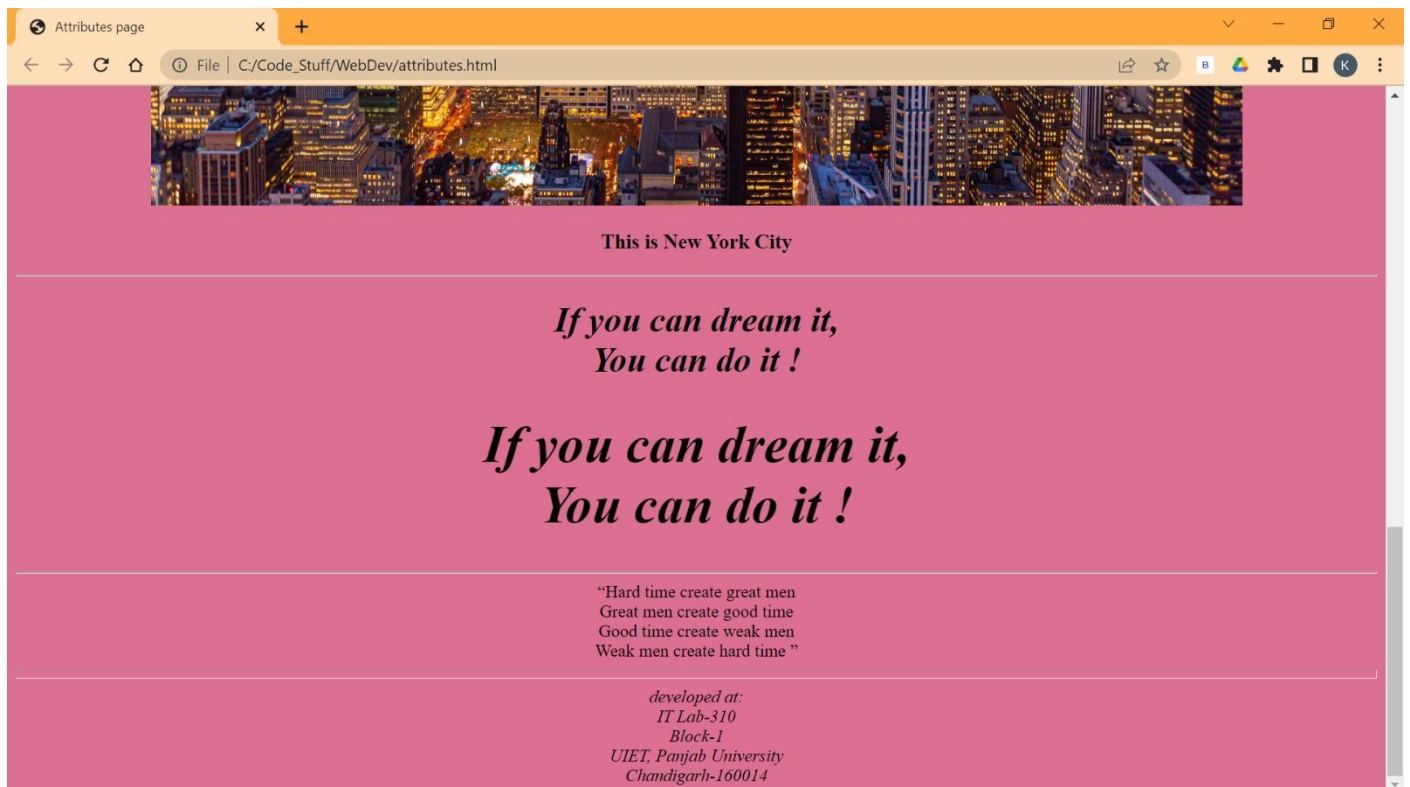
</address>

</center>

</body>

</html>





Experiment-4

- Image Mapping

- Main webpage

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title>image mapping</title>
```

```
</head>
```

```
<body>
```

```
<h1>Image Maps</h1>
```

```
<p>Click on images to go to a new page</p>
```

```

```

```
<map name="workmap">
```

```
<area shape="rect" coords="128,2,626,445" alt="laptop" href="1st_laptop.html">
```

```
<area shape="rect" coords="657,300,790,470" alt="cup" href="2nd_cup.html">
```

```
<area shape="circle" coords="580,510,30" alt="mouse" href="3rd_mouse.html">
```

```
</map>
```

```
</body>
```

```
</html>
```


- Laptop webpage

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta http-equiv="X-UA-Compatible" content="IE=edge">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Laptop</title>

</head>

<body>

  <h1>This is Laptop</h1>

  <a href="https://www.apple.com/in/macbook-air/">Macbook Air</a><br>

</body>

</html>
```

- Coffee webpage

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta http-equiv="X-UA-Compatible" content="IE=edge">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Document</title>

</head>

<body>

  <a href="https://www.starbucks.in/">This is a cup of coffee</a><br>

  
```

</body>

</html>

- Mouse webpage

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Document</title>

</head>

<body>

This is mouse

</body>

</html>

Image Maps

Click on images to go to a new page



This is Laptop

[Macbook Air](#)



[This is a cup of coffee](#)



<https://www.starbucks.in>

[This is mouse](#)



apple.com/in/shop/product/.../magic-mouse-white-multi-touch-surface

Experiment-5

- List in html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <title>List</title>
```

```
</head>
```

```
<body>
```

```
  <b>Italian traditional dishes: </b><br>
```

```
    <ul type="circle">
```

```
      <li>Risotto Alla Milanese</li>
```

```
      <li>Polenta</li>
```

```
      <li>Lasagna</li>
```

```
      <li>Ravioli</li>
```

```
    <ol>
```

```
      <li>Osso buco</li>
```

```
      <li>Arancini</li>
```

```
    <ol type="i">
```

```
      <li>Ribollita</li>
```

```
      <li>Spaghetti Alla Carbonara</li>
```

```
      <li>Neapolitan pizza</li>
```

```
      <li>Caprese salad</li>
```

```
    </ol>
```

```
</ol>
```

```
  <li>Gnocchi</li>
```

```
  <li>Swordfish</li>
```

```
  <li>Parmigiana</li>
```

```
  <li>Tiramisu</li>
```


</body>

</html>



Italian traditional dishes:

- Risotto Alla Milanese
- Polenta
- Lasagna
- Ravioli
 - 1. Osso buco
 - 2. Arancini
 - i. Ribollita
 - ii. Spaghetti Alla Carbonara
 - iii. Neapolitan pizza
 - iv. Caprese salad
- Gnocchi
- Swordfish
- Parmigiana
- Tiramisu

- Table in html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Table</title>

</head><center>

<body>

<table border="3px" width="800px" height="500px">

<tr align="center">

<td>topic 1</td>

<td>topic 1</td>

<td>topic 1</td>

<td>topic 1</td>

</tr>

<tr align="center">

<td>topic 2</td>

<td>topic 2</td>

<td>topic 2</td>

<td>topic 2</td>

</tr>

<tr align="center">

<td>topic 3</td>

<td>topic 3</td>

<td>topic 3</td>

<td>topic 3</td>

</tr>

<tr align="center">

<td>topic 4</td>

<td>topic 4</td>

<td>topic 4</td>

<td>topic 4</td>

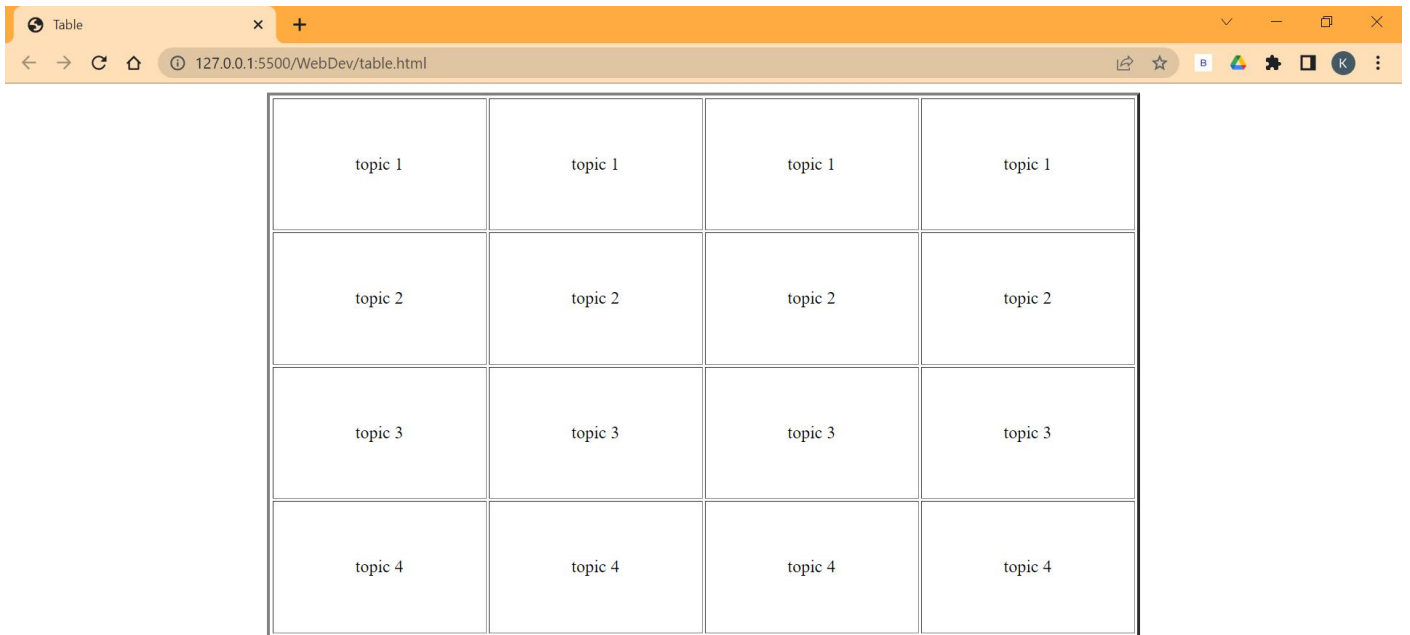
</tr>

</table>

</body>

</center>

</html>



topic 1	topic 1	topic 1	topic 1
topic 2	topic 2	topic 2	topic 2
topic 3	topic 3	topic 3	topic 3
topic 4	topic 4	topic 4	topic 4

- Frames in html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Frames</title>
```

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

```
    <frame src="frame1.html" >
```

```
    <frame src="frame2.html">
```

```
    <frame src="frame3.html">
```

```
  </frameset>
```

```
</head>
```

```
<body>
```



```
</body>
```

```
</html>
```

frame1.html :

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>1st frame</title>
```

```
</head>
```

```
<body style="background-color:rgb(150, 216, 243);">
```

```
  <h2>This is First frame</h2>
```

```
</body>
```

```
</html>
```

frame2.html :

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>2nd frame</title>
```

```
</head>
```

```
<body style="background-color:rgb(246, 222, 114) ;">
```

```
  <h2>This is Second frame</h2>
```

```
</body>
```

```
</html>
```

frame3.html :

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>3rd frame</title>
```

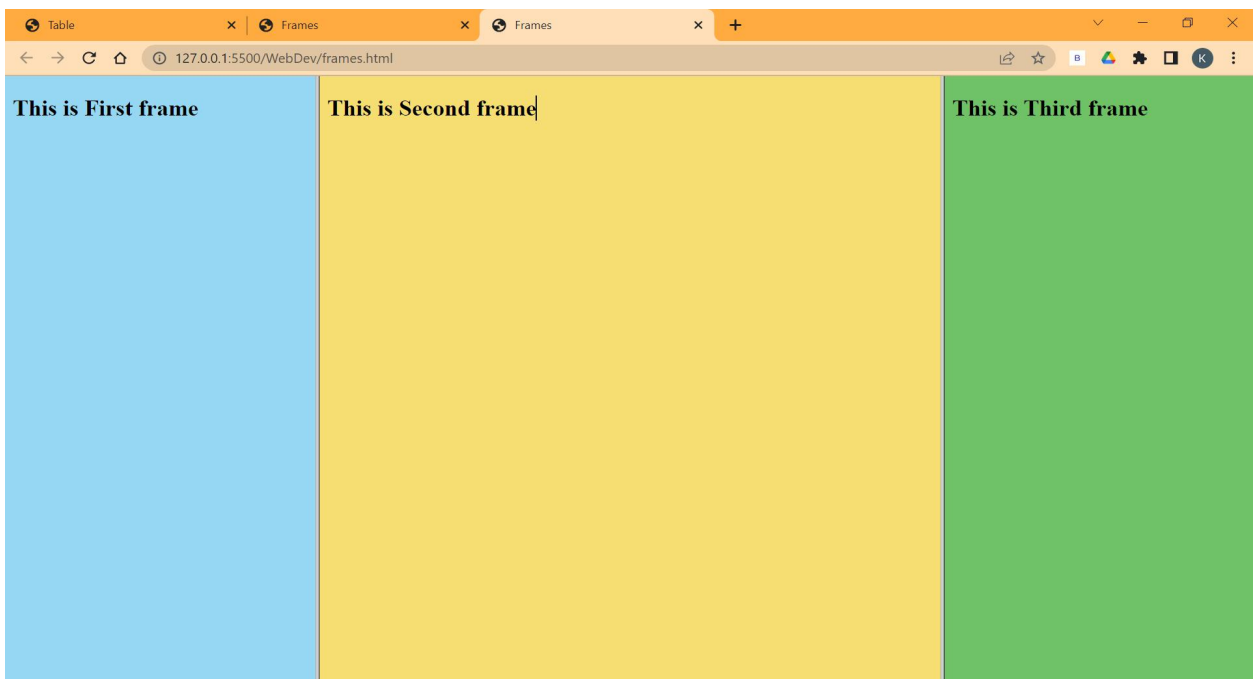
```
</head>
```

```
<body style="background-color: rgb(112, 194, 102);">
```

```
  <h2>This is Third frame</h2>
```

```
</body>
```

```
</html>
```



Experiment- 6

Q.1 What is CSS?

- CSS stands for Cascading Style Sheets.
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media.
- CSS saves a lot of work. It can control the layout of multiple web pages all at once.
- External stylesheets are stored in CSS files.

Advantages of CSS :

HTML was NEVER intended to contain tags for formatting a web page!

HTML was created to describe the content of a web page, like:

`<h1>This is a heading</h1>`

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

When tags like ``, and color attributes were added to the HTML 3.2 specification, it started a nightmare for web developers. Development of large websites, where fonts and color information were added to every single page, became a long and expensive process.

To solve this problem, the World Wide Web Consortium (W3C) created CSS.

CSS removed the style formatting from the HTML page!