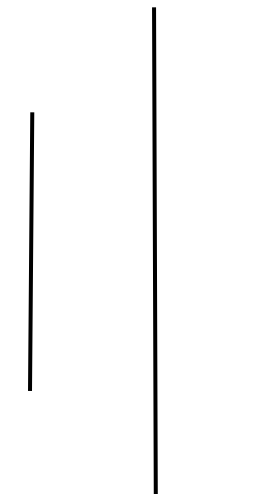


NEPAL COLLEGE OF INFORMATION TECHNOLOGY BALKUMARI, LALITPUR



(Affiliated to Pokhara University)

Subject: Web Technology.....



Lab Report# 6.....

Title:- Introduction to CSS, Types of CSS and All kinds of Selectors
present in CSS. Different kinds of Style with their properties.....

Submitted by:

Name:- Astha Thapa

Roll no:- 2210707

Faculty:- Science & Technology

Year:- 1st

Semester:- 2nd

Submitted to:

Instructor:- Er. Simanta Kasaju

Department of
Software Engineering.....

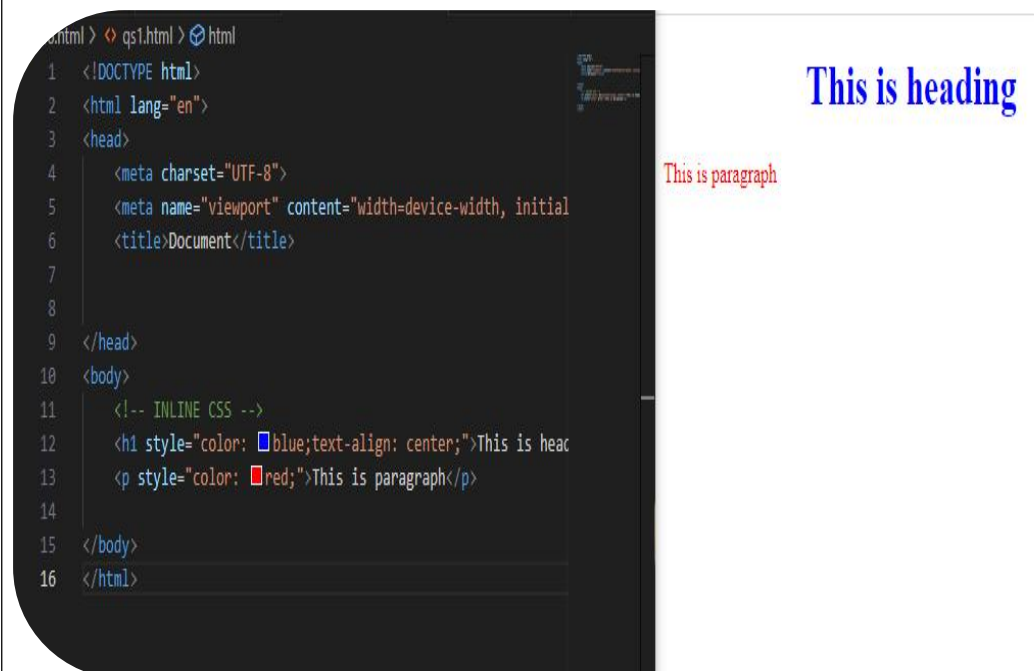
Submission date:

2023/07/16.....

Qs.1

1. Inline CSS

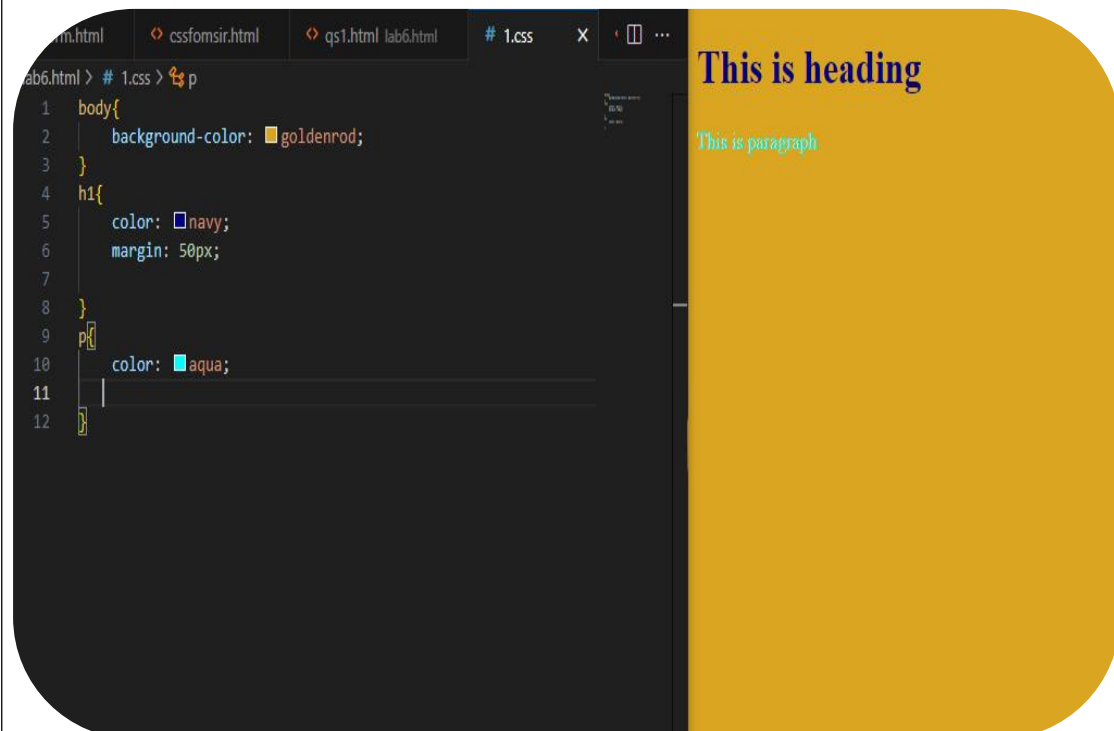
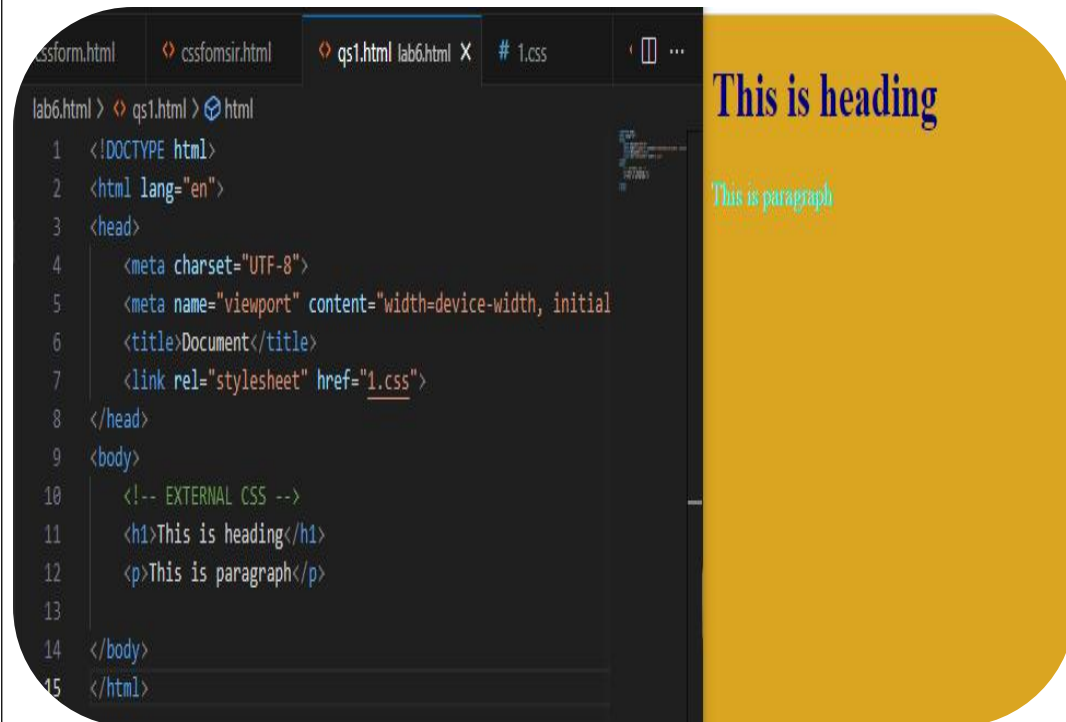
- Inline CSS is used to style a specific HTML element. Add a style attribute to each HTML tag without using the selectors. Managing a website may be difficult if we use only inline CSS. However, Inline CSS in HTML is useful in some situations. We have no access to the CSS files or to apply styles to elements.
- An inline style loses many of the advantages of a style sheet.
- To use inline styles, add the style attribute to the relevant tag.
- The style attribute can contain any CSS property



2. External CSS

- In external CSS, we link the web pages to the external .css file. It is

created by text editor. The CSS is more efficient method for styling a website. By editing the .css file, we can change the whole site at once.



3. Internal CSS(Embedded Style)

- The Internal CSS has <style> tag in the <head> section of the HTML document.

This CSS style is an effective way to style single pages.

Using the CSS style for multiple web pages is time-consuming because we require placing the style on each web page.

- We can use the internal CSS by using the following steps:

1. Firstly, open the HTML page and locate the <head>
2. Put the following code after the <head>
3. Add the rules of CSS in the new line.
4. Close the style tag.



Qs 2.

CSS Combinators

A combinator is something that explains the relationship between the selectors.

A CSS selector can contain more than one simple selector. Between the simple selectors, we can include a combinator.

There are four different combinators in CSS:

1. descendant selector (space)
2. child selector (>)
3. adjacent sibling selector (+)
4. general sibling selector (~)

The screenshot shows a code editor with the following CSS and HTML code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial
6   <title>Document</title>
7   <style>
8     p{
9       color: goldenrod;
10      background-color: aqua;
11    }
12    h1{
13      color: blue;
14      background-color: aquamarine;
15    }
16    i{
17      color: aquamarine;
18      background-color: darkorchid;
19    }
20  </style>
21 </head>
22 <body>
23   <p>Element selector</p>
24   <h1>heading</h1>
25   <i>This is italic</i>
26
27
28 </body>
29 </html>
```

The preview on the right shows the rendered output:

- A yellow bar with the text "Element selector".
- A blue bar with the text "heading".
- A purple bar with the text "This is italic".

At the bottom right, there is a watermark that says "Activate Windows Go to Settings to activate Windows."

Types of selector are:-

1. The CSS element Selector

- The element selector selects HTML elements based on the element name.

```
lab6.html > < qs2.html > html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial
6   <title>Document</title>
7   <style>
8     #A{
9       color: goldenrod;
10      background-color: aqua;
11    }
12
13    #B{
14      color: aquamarine;
15      background-color: darkorchid;
16    }
17  </style>
18 </head>
19 <body>
20   <p id="A">ID selector</p>
21   <p id="B">This is another ID selector</p>
22 </body>
23 </html>
```

ID selector

This is another ID selector

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2. The CSS id Selector

The id selector uses the id attribute of an HTML element to select a specific element.

The id of an element is unique within a page, so the id selector is used to select one unique element!

To select an element with a specific id, write a hash (#) character, followed by the id of the element.

```
lab6.html > < qs2.html > html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial
6   <title>Document</title>
7   <style>
8     #A{
9       color: goldenrod;
10      background-color: aqua;
11    }
12
13    #B{
14      color: aquamarine;
15      background-color: darkorchid;
16    }
17  </style>
18 </head>
19 <body>
20   <p id="A">ID selector</p>
21   <p id="B">This is another ID selector</p>
22 </body>
23 </html>
```

ID selector

This is another ID selector

Activate Windows

3. The CSS class Selector

The class selector selects HTML elements with a specific class attribute.

To select elements with a specific class, write a period (.) character, followed by the class name.

```
lab6.html > q2.html > html > head
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial
6   <title>Document</title>
7   <style>
8     .AB{
9       color: goldenrod;
10      background-color: aqua;
11    }
12
13    .BC{
14      color: aquamarine;
15      background-color: darkorchid;
16    }
17  </style>
18 </head>
19 <body>
20   <!-- class selector -->
21   <p class="S AB">We are using Class Selector</p>
22   <p Class="K BC">This is another Class Selector</p>
23 </body>
24 </html>
```

We are using Class Selector

This is another Class Selector

4. The CSS Grouping Selector

The grouping selector selects all the HTML elements with the same style definitions.

Look at the following CSS code (the h1, h2, and p elements have the same style definitions):

```
lab6.html > q2.html > html > head > style > p > h1 > h2 > h3
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial
6   <title>Document</title>
7   <style>
8     p,h1,h2,h3{
9       color: red;
10    }
11  </style>
12
13 </head>
14 <body>
15   <!-- group selector -->
16   <p>Group Selector</p>
17   <h1>hi</h1>
18   <h2>ok</h2>
19   <h3>bye</h3>
20
21 </body>
22 </html>
```

Group Selector

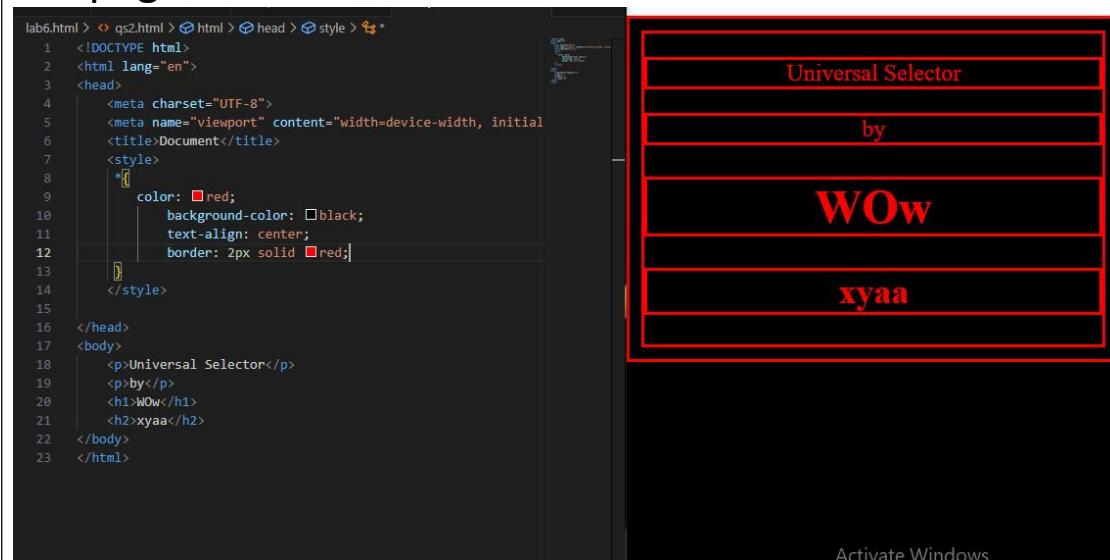
hi

ok

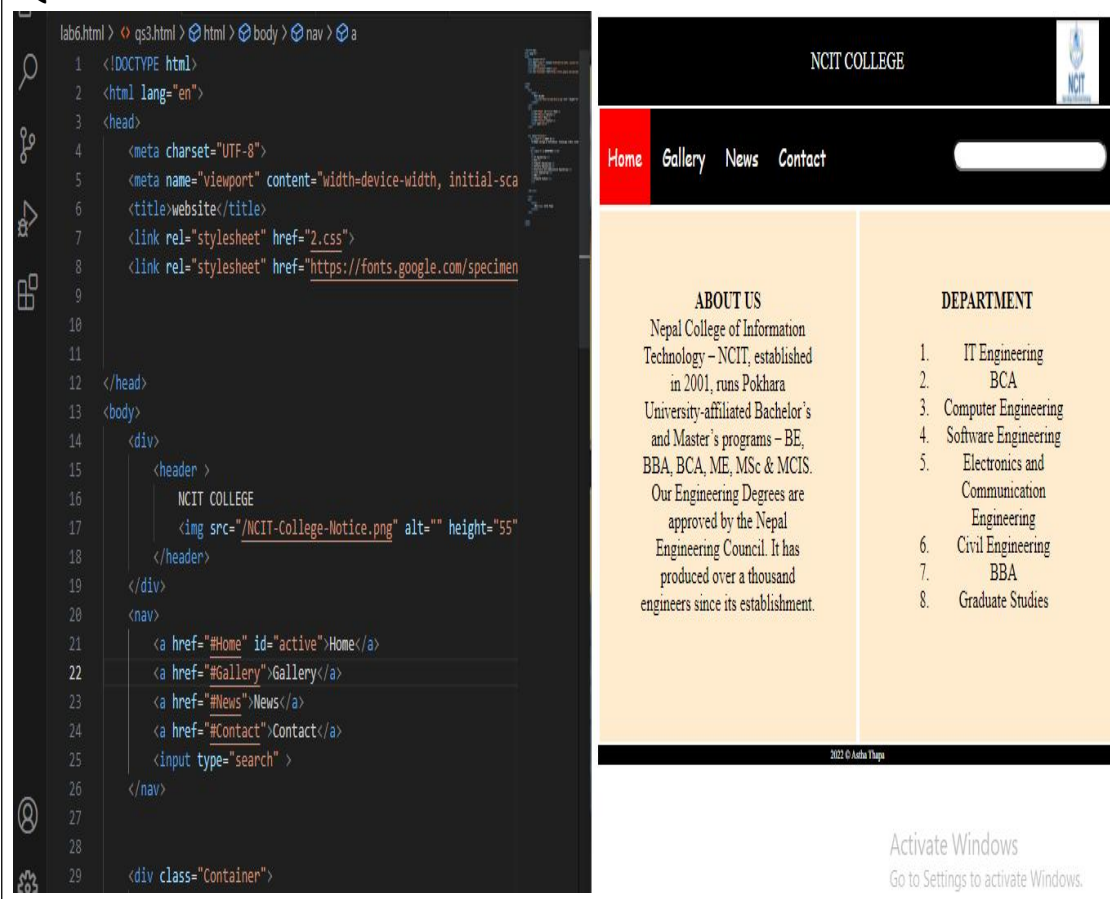
bye

5.The CSS Universal Selector

The universal selector (*) selects all HTML elements on the page.



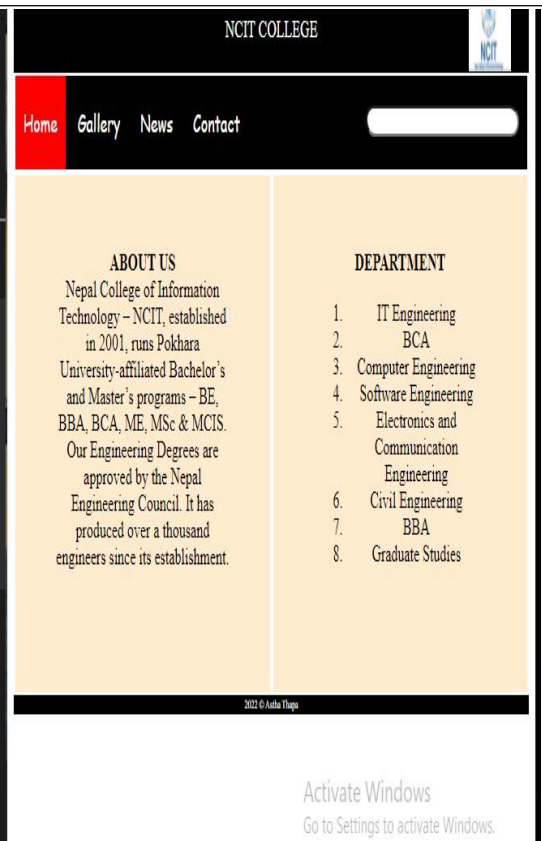
Qs.3




```

30 <div class="A"><b>ABOUT US</b>
31 <BR>Nepal College of Information Technology NCIT, estab
32
33 </div>
34 <div class="C"><b>DEPARTMENT</b><BR>
35 <ol >
36 <li>IT Engineering</li>
37 <li>BCA</li>
38 <li>Computer Engineering</li>
39 <li>Software Engineering</li>
40 <li>Electronics and Communication Engineering</li>
41 <li>Civil Engineering</li>
42 <li>BBA</li>
43 <li>Graduate Studies</li>
44 </ol>
45
46 </div>
47 <BR></div>
48
49 </div>
50 <div>
51 <footer>
52 2022 &copy; Astha Thapa
53 </footer>
54 </div>
55
56 </body>
57 </html>

```

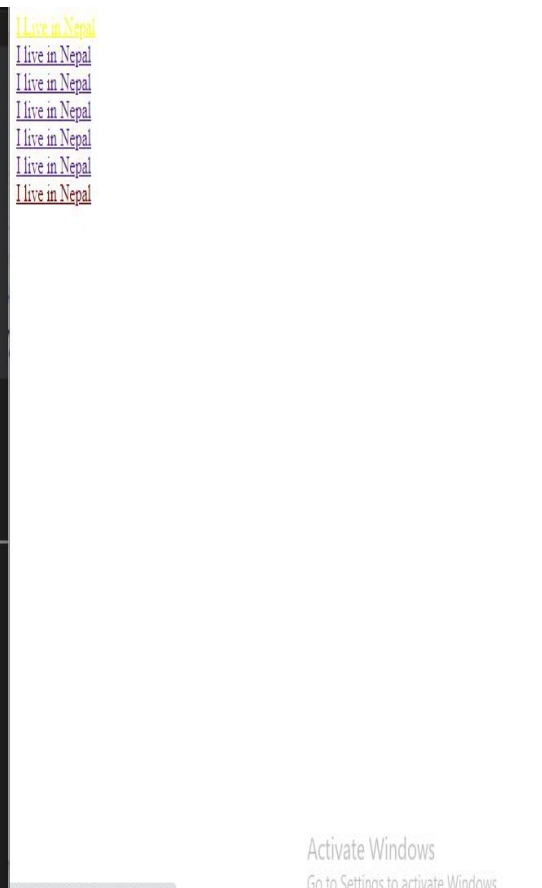


Qs 4.

```

lab6.html > > qs4.html > html > body > br
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-sca
6 <title>Document</title>
7 <style>
8 #G:link{
9 color: maroon;
10 }
11 #G:visited{
12 color: blue;
13 #G:active{
14 color: green
15 }
16 }
17 #A:hover{
18 color: yellow;
19 }
20 #B:hover{
21 font-size: 150%;
22 }
23 #C:hover{
24 background-color: black;
25 }
26 #D:hover{
27 font-family: monospace;
28 }
29

```



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29

#E:hover{

31

text-decoration: none;

32

}

33

#F:hover{

34

text-decoration: underline 2px blueviolet wavy;

35

}

36

37

</style>

38

</head>

39

<body>

40

41

I live in Nepal

42

I live in Nepal

43

I live in Nepal

44

I live in Nepal

45

I live in Nepal

46

I live in Nepal

47

I live in Nepal

48

49

</div>

50

</body>

51

</html>

127.0.0.1:5500/lab6.html/gs4.html#D

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Qs5 .

lab6.html > > qs5.html > html > head > style > p::selection

1

<!DOCTYPE html>

2

<html lang="en">

3

<head>

4

<meta charset="UTF-8">

5

<meta name="viewport" content="width=device-width, initial-sca

6

<title>Document</title>

7

<style>

8

p::first-line{

9

color: blueviolet ;

10

font-family: cursive;

11

}

12

p::first-letter{

13

color: green;

14

font-size: 50px;

15

}

16

p::selection{

17

background-color: goldenrod;

18

}

19

}

20

</style>

21

</head>

22

<body>

23

<p>It's Astha and I'm learning Pseudo elements.You can

24

use the ::first-line pseudo-element to add a special

25

effect to the first line of a text. Some more text.

26

And even more, and more, and more, and more, and more

27

, and more, and more, and more, and more, and more, a

28

nd more, and more.</p>

29

</body>

30

</html>

It's Astha and I'm learning Pseudo elements.You can use the ::first-line pseudo-

element to add a special effect to the first line of a text. Some more text. And even more, and

more, and more, and more, and more , and more, and more, and more, and more, and more, a nd

more, and more.

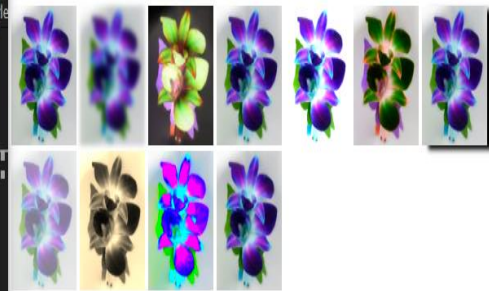
Activate Windows

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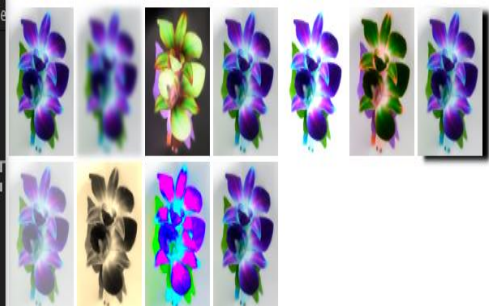
Qs 6

Background image

```
projectlab3.html - Copy > css2.html > css5.html > css6.html > img_filter.html > html > head > style
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-sca
6   <title>Document</title>
7   <style>
8     #A{
9       filter: blur(2px);
10    }
11    #B{
12      filter: invert(100%);
13    }
14    #C{
15      filter: contrast(2px);
16    }
17    #D{
18      filter: brightness(150%);
19    }
20    #E{
21      filter: hue-rotate(180deg);
22    }
23    #F{
24      filter: drop-shadow(8px 3px 2px black);
25    }
26    #G{
27      filter: opacity(50%);
28    }
29    #H{
30      filter: sepia(100%);
31    }
32    #I{
33      filter: saturate(7);
34    }
35    #K{
36      filter: grayscale(500%);
37    }
38  </style>
39 </head>
40 <body>
41   
42   
43   
44   
45   
46   
47   
48   
49   
50   
51   
52
53
54 </body>
55 </html>
```



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Border radius

```
lab6.html > q56.html > ...
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <style>
5 p.dotted {border-style: dotted;}
6 p.dashed {border-style: dashed;}
7 p.solid {border-style: solid;}
8 p.double {border-style: double;}
9 p.groove {border-style: groove;}
10 p.ridge {border-style: ridge;}
11 p.inset {border-style: inset;}
12 p.outset {border-style: outset;}
13 p.none {border-style: none;}
14 p.hidden {border-style: hidden;}
15 p.mix {border-style: dotted dashed solid double;}
16 </style>
17 </head>
18 <body>
19
20 <h2>The border-style Property</h2>
21 <p>This property specifies what kind of border to display:</p>
22
23 <p class="dotted">A dotted border.</p>
24 <p class="dashed">A dashed border.</p>
25 <p class="solid">A solid border.</p>
26 <p class="double">A double border.</p>
27 <p class="groove">A groove border.</p>
28 <p class="ridge">A ridge border.</p>
29 <p class="inset">An inset border.</p>
30 <p class="outset">An outset border.</p>
31 <p class="none">No border.</p>
32 <p class="hidden">A hidden border.</p>
33 <p class="mix">A mixed border.</p>
34
35 </body>
36 </html>
37
```

The border-style Property

This property specifies what kind of border to display:

A dotted border.

A dashed border.

A solid border.

A double border.

A groove border.

A ridge border.

An inset border.

An outset border.

No border.

A hidden border.

A mixed border.

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Qs7.


```
HTMLLAB
> javascript
> lab6.html
> cw_off.html
# 1.css
# 2.css
o eg.html
o q51.html
o q52.html
o q53.html
o q54.html
o q55.html
o q56.html
o q57.html
> projectlab3.html
> projectlab3.html - Copy
> css2.html
> css5.html
> css6.html
> web.html
o cursor.html
o flex.html
o img_filter.html
o cw.html
o nav.html
o overflow_dis.html
o position.html
> projectlab4.html
> Assignment.html
> css3.html
> css4.html
> TIMELINE
> OUTLINE

lab6.html > o q57.html > html > head > divd
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <style>
5     div.a {
6         text-align: center;
7     }
8
9     div.b {
10        text-align: left;
11    }
12
13    div.c {
14        text-align: right;
15    }
16
17    div.d {
18        text-align: justify;
19    }
20    img.a {
21        vertical-align: baseline;
22    }
23    img.b {
24        vertical-align: text-top;
25    }
26    img.c {
27        vertical-align: text-bottom;
28    }
29
30    img.d {
31        vertical-align: sub;
32    }
33    img.e {
34        vertical-align: super;
35    }
36 </style>
37
38 <h1>The text-align Property</h1>
39
40 <div class="a">
41 <h2>text-align: center:</h2>
42 <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at
43 pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.
44 </div>
45 <div class="b">
46 <h2>text-align: left:</h2>
47 <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at
48 pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.
49 </div>
50 <div class="c">
51 <h2>text-align: right:</h2>
52 <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at
53 pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.
54 </div>
55 <div class="d">
56 <h2>text-align: justify:</h2>
57 <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at
58 pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.
59 </div>
60 <h2>vertical-align: text-bottom:</h2>
61 <p>An  image with a text-
63 bottom alignment.</p>
64
65 <h2>vertical-align: sub:</h2>
66 <p>An  image with a sub
68 alignment.</p>
69
70 <h2>vertical-align: sup:</h2>
71 <p>An  image with a super
73 alignment.</p>
74 </body>
75 </html>
```

The text-align Property

text-align: center:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.

text-align: left:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.

text-align: right:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.

text-align: justify:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.

vertical-align: text-bottom:



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text-align: justify:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam semper diam at erat pulvinar, at pulvinar felis blandit. Vestibulum volutpat tellus diam, consequat gravida libero rhoncus ut.

vertical-align: text-bottom:



An image with a text- bottom alignment.

vertical-align: sub:



An image with a sub alignment.

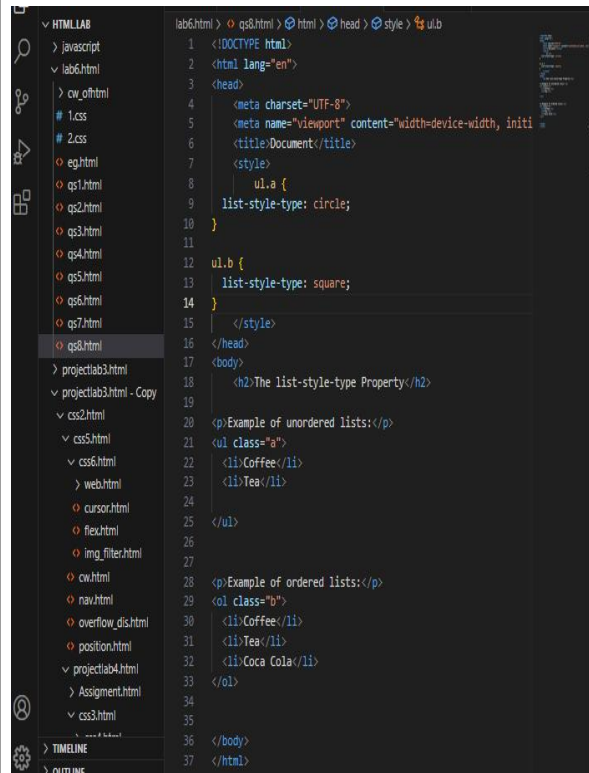
vertical-align: sup:



An image with a super alignment.

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Qs8.



The list-style-type Property

Example of unordered lists:


- o Coffee
- o Tea

Example of ordered lists:

1. Coffee
2. Tea
3. Coca Cola

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Qs 9



ID	Date	Description	Status	Description
12345	1994-3-2	code1234	change	\$250000
12345	1994-3-2	code1234	change	\$250000
12345	1994-3-2	code1234	change	\$250000
12345	1994-3-2	code1234	change	\$250000

```

25     background-color: antiquewhite;
26 }
27 button{
28     background-color: green;
29     border-radius: 10px;
30     font-size: 10px;
31 }
32 }
33
34 </style>
35 </head>
36 <body>
37     <table border="1" cellpadding="1">
38         <tr select>
39             <th>ID <select name="" id=""></select></th>
40
41             </form>
42             <th>Date <select name="" id=""></select></th>
43
44             <th>Description <select name="" id=""></select></th>
45
46             <th>Status <select name="" id=""></select></th>
47
48             <th>Description <select name="" id=""></select></th>
49
50 </tr>
51 <tr>
52     <td><input type="checkbox" name="" id="">12345 </td>
53     <td>1994-3-2</td>
54     <td>code1234</td>
55     <td><button>checked</button></td>
56     <td>$250000</td>
57 </tr>
58 <tr>
59     <td><input type="checkbox" name="" id="">12345</td>
60     <td>1994-3-2</td>
61     <td>code1234</td>
62     <td><button>checked</button></td>
63     <td>$250000</td>
64 </tr>
65 <tr>
66     <td><input type="checkbox" name="" id="">12345</td>
67     <td>1994-3-2</td>
68     <td>code1234</td>
69     <td><button>checked</button></td>
70     <td>$250000</td>
71 </tr>
72 <tr>
73     <td><input type="checkbox" name="" id="">12345</td>
74     <td>1994-3-2</td>
75     <td>code1234</td>
76     <td><button>checked</button></td>
77     <td>$250000</td>
78 </tr>
79
80 </table>
81 </body>
82 </html>

```

ID	Date	Description	Status	Description
<input checked="" type="checkbox"/> 12345	1994-3-2	code1234	<input checked="" type="checkbox"/>	\$250000
<input type="checkbox"/> 12345	1994-3-2	code1234	<input checked="" type="checkbox"/>	\$250000
<input checked="" type="checkbox"/> 12345	1994-3-2	code1234	<input checked="" type="checkbox"/>	\$250000
<input type="checkbox"/> 12345	1994-3-2	code1234	<input checked="" type="checkbox"/>	\$250000

ID	Date	Description	Status	Description
<input checked="" type="checkbox"/> 12345	1994-3-2	code1234	<input checked="" type="checkbox"/>	\$250000
<input type="checkbox"/> 12345	1994-3-2	code1234	<input checked="" type="checkbox"/>	\$250000
<input checked="" type="checkbox"/> 12345	1994-3-2	code1234	<input checked="" type="checkbox"/>	\$250000
<input type="checkbox"/> 12345	1994-3-2	code1234	<input checked="" type="checkbox"/>	\$250000

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Conclusion

In this lab we learnt about the CSS, Types of CSS and All kinds of Selectors present in CSS. Different kinds of Style with their properties.