GANPAT UNIVERSITY
U.V. PATEL COLLEGE OF ENGINEERING B. TECH 1ST SEMESTER CE/IT/CE-AI 2ES1109: BASICS OF WEB TECHNOLOGY

Practical - 5

AIM: To Learn the usage of CSS Background, Text, Font, List, and Links.

PRACTICAL 5.1:

1. Write a program to demonstrate the usage of inline CSS, internal CSS and external CSS.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.1</title>
    <link rel="stylesheet" href="practical 1.css">
    <style>
      #h2 {
         color: darkslategrey;
         font-family: Arial, Helvetica, sans-serif;
         text-align: center;
         text-decoration: wavy underline;
         font-weight: normal;
      }
      #p2 {
         color: darkslategrey;
         font-weight: bold;
         font-size: 20px;
         font-family: Arial, Helvetica, sans-serif;
         text-align: center;
         background-color: aquamarine;
```

```
      border: 2px solid;
   }
 </style>
</head>
<body style="background-color: #EEE1F2;">

  <h1 id="h1" style="color:black;font-family: 'Times New Roman', Times, serif;text-align:
center;text-decoration: underline; font-weight: normal;">INLINE CSS</h1>
  <p id="p1" style="color:black;font-weight: bold; font-size: 20px;font-family: 'Times New
Roman', Times, serif;text-align: center;background-color: bisque;border: 2px solid;">
    Inline CSS refers to the method of applying CSS styles directly to individual HTML
elements using the style attribute within the element's opening tag. This approach allows for
unique styling of a single element without affecting other elements or relying on external or
internal stylesheets.
  </p>

  <br/>

  <h1 id="h2">INTERNAL CSS</h1>
  <p id="p2">
    Internal CSS, also known as embedded CSS, is a method of styling web pages where the
CSS rules are placed directly within the HTML document itself. This is achieved by using a style
element located within the head section of the HTML file.
  </p>

  <br/>

  <h1 id="h3">EXTERNAL CSS</h1>
  <p id="p3">
    External CSS refers to the practice of styling HTML documents by placing all CSS rules in
a separate file with a .css extension. This file is then linked to one or more HTML document
  </p>

</body>
</html>

CSS CODE:

#h3{
```

```
    color:darkblue;text-align: center;text-decoration:dotted underline;font-weight:
normal;font-family: cursive;
}
#p3{
    color:darkblue;text-align: center;font-weight: bold;font-size: 20px;font-family:
cursive;background-color: lightblue;border: 2px solid;
}
```

OUTPUT :

PRACTICAL 5.2:

2. Write an html code that displays an Image in background with CSS. Hint: background-image: url("img_tree.png");

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTRICAL 5.2</title>
    <link rel="stylesheet" href="practical 2.css">
</head>
<body>
    <h1>GANPAT UNIVERSITY</h1>
    <p>Ganpat University offers various unique, quality, industry-linked and sector-focused Diploma, Undergraduate,<br> Postgraduate and Research level programs (Professional and Non-professional) in the field of Engineering,<br> Management, Computer Applications, Pharmacy, Sciences, Commerce & Social Science, Architecture, Design </p>
</body>
</html>
```

CSS CODE:

```
body {
  background-image: url( kitty.png );
  background-repeat: no-repeat;
  background-size: 400px;
  background-position-x: 20%;
  background-position-y: -70%;
}

h1 {
  font-family: cursive;
  color: aquamarine;
}

p {
```

```
  font-family: cursive;
  color: black;
}
```

OUTPUT:

GANPAT UNIVERSITY

Ganpat University offers various unique, quality, industry-linked and sector-focused Diploma, Undergraduate, Postgraduate and Research level programs (Professional and Non-professional) in the field of Engineering, Management, Computer Applications, Pharmacy, Sciences, Commerce & Social Science, Architecture, Design

PRACTICAL 5.3:

3. Write a Html code that displays Image in the background using background-repeat property with CSS. Possible Values are (repeat,repeat-x,repeat-y,no-repeat,space,round) Hint: background-repeat: repeat-x;

- **Practical 5.3.1:**

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.3</title>
    <link rel="stylesheet" href="practical 3.1.css">
</head>
<body>
    <p>repeat</p>
</body>
</html>
```
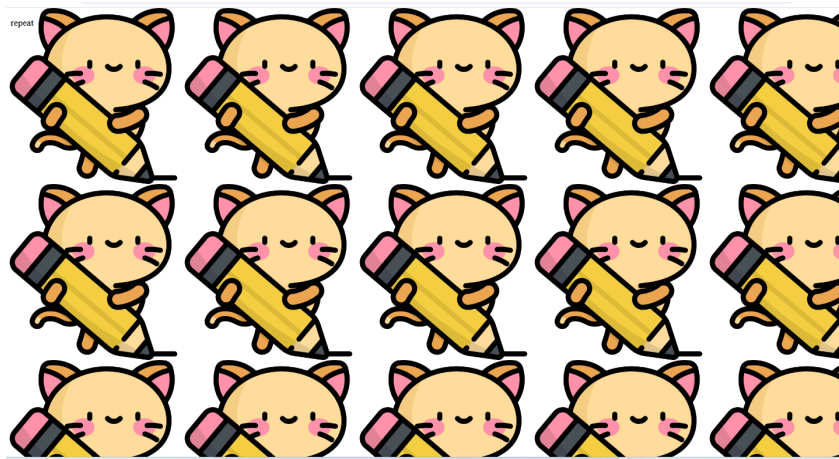
CSS CODE:

```
body{
    background-image: url("kitty.png");
    background-repeat: repeat;
    background-size: 300px;
}
```

OUTPUT :

- **Practical 5.3.2:**

HTML CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="practical 3.2.css">
</head>
<body>
    <p>repeat-x</p>
</body>
</html>
```

CSS CODE:

```css
body{
    background-image: url("kitty.png");
    background-repeat:repeat-x;
    background-size: 100px;
}
```

OUTPUT :

● **Practical 5.3.3:**

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet" href="practical 3.3.css">
</head>
<body>
    <p>repeat-y</p>
</body>
</html>
```
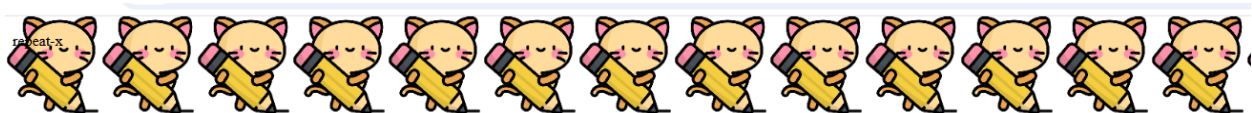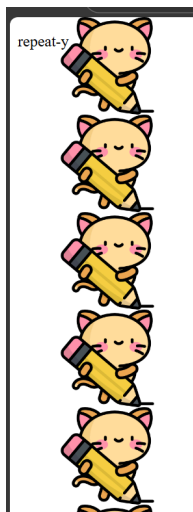
CSS CODE:

```
body {
    background-image: url("kitty.png");
    background-repeat: repeat-y;
    background-size: 100px;
    background-position-x: 50px;
}
```

OUTPUT :

- **Practical 5.3.4:**

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTIACL 5.3</title>
    <link rel="stylesheet" href="practical 3.4.css">
</head>
<body>
    <p>no-repeat</p>
</body>
</html>
```
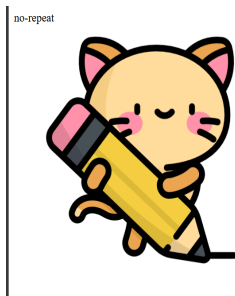
CSS CODE:

```
body{
    background-image: url("kitty.png");
    background-repeat:no-repeat;
    background-size: 300px;
    background-position-x: 50px;
    background-position-y: 50px;
}
```

OUTPUT :

PRACTICAL 5.4:

4. Write a Html code that displays Image in background usingThe CSS background-position property with CSS. (You can also use a combination of these values: Top, left, right, bottom, percentage values)

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.4</title>
    <link rel="stylesheet" type="text/css" href="practical 4.css">
</head>
<body>
    <p>hello</p>
</body>
</html>
```
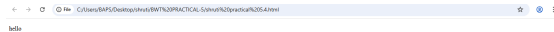
CSS CODE:

```
body {
  background-image: url("kitty.png");
  background-repeat: no-repeat;
  background-size: 300px;
  background-position: right;
  background-position-y: 450px;
}
```

OUTPUT :

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.4</title>
    <link rel="stylesheet" type="text/css" href="practical 4.2.css">
</head>
<body>
    <div>
        <img src="kitty.png" height="200px">
    </div>
</body>
</html>
```

CSS CODE:

```
div {
    position: absolute;
    left: 25%;
    top: 15%;
}
```

OUTPUT :

PRACTICAL 5.5:

5. Write an Html code that displays the Image in background using The Background attachment property with CSS. (Its three values are: Scroll, fixed, local) Hint: background-attachment: scroll;

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.5.1</title>
    <link rel="stylesheet" type="text/css" href="practical 5.1.css">
</head>
<body>
    <p>The background-attachment CSS property controls how a background image behaves
when the user scrolls the page. It determines whether the background image scrolls along with
the content or remains fixed in the viewport.</p>
</body>
</html>
```

CSS CODE:

```
body{
    background-image: url("kitty.png");
    background-repeat: no-repeat;
    Background-attachment: scroll;
}
```

OUTPUT:

PRACTICAL 5.6:

6. Write a Html code using shorthand property to set the background properties in one declaration with CSS.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.6</title>
    <link rel="stylesheet" type="text/css" href="practical 5.2.css">
</head>
<body>

</body>
</html>
```
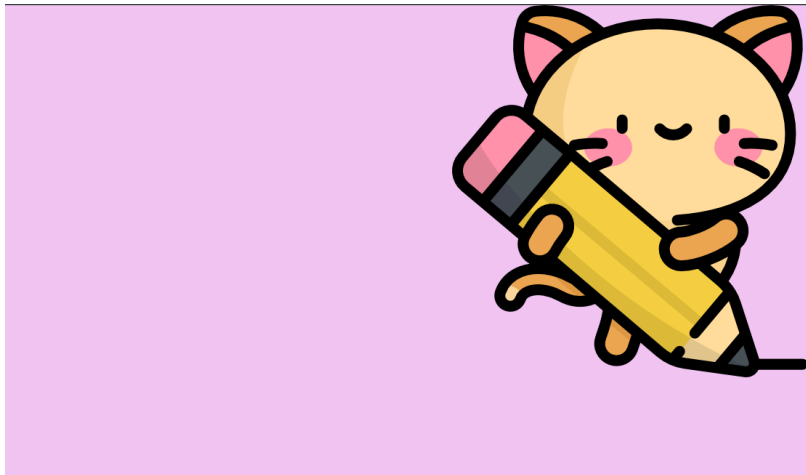
CSS CODE:

```
body{
    background: #f3c4f3 url("kitty.png") no-repeat right top;
}
```

OUTPUT:

PRACTICAL 5.7:

7. Write a Html code that demonstrates CSS TEXT Attribute.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.7</title>
    <link rel="stylesheet" type="text/css" href="practical 5.7.css">
</head>
<body>
    <h1 id="h1">overline text decoration</h1>
    <h2 id="h2">Line through text decoration</h2>
    <h3 id="h3">Underline text decoration</h3>
    <p id="p1">Overline and Underline decoration</p>
</body>
</html>
```

Css code:

```
#h1{
    text-decoration-line:overline;
    text-decoration-color:red ;
    text-decoration-style: solid;
    text-decoration-thickness:5px ;
}
#h2{
    text-decoration-line:line-through;
    text-decoration-color:blue ;
    text-decoration-style: solid;
    text-decoration-thickness:3px
}
#h3{
    text-decoration-line:underline;
    text-decoration-color:green ;
    text-decoration-style: solid;
```

```
    text-decoration-thickness:2px
}
#p1{
    text-decoration-line:underline overline;
    text-decoration-color:purple ;
    text-decoration-style: solid;
    text-decoration-thickness:2px
}
```

OUTPUT :

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.7</title>
    <link rel="stylesheet" type="text/css" href="practical 7.2.css">
</head>
<body>
    <h1 id="h1">Welcome to this Page</h1>
    <h2 id="h2">text-decoration: text-decoration-line text-decoration-style;</h2>
    <h1 id="p1">It is double underline</h1>
    <h1 id="p2">It is dashed linethrough</h1>
    <h1 id="p3">It is dotted overline</h1>
    <h1 id="p4">It is a wavy combination of the lines</h1>
</body>
</html>
```

CSS CODE:

```css
#h1{
    color:red;
    text-align: center;
}
#h2{
    color:chartreuse;
    text-align: center;
}
#p1{
    font-weight: normal;
    text-align: center;
    text-decoration-style:double;
    text-decoration-line: underline;
}
#p2{
    font-weight: normal;
    text-align: center;
    text-decoration-style: dashed;
    text-decoration-line: line-through;
}
#p3{
    font-weight: normal;
    text-align: center;



    text-decoration-style: dotted;
    text-decoration-line: overline;
}
#p4{
    font-weight:normal;
    color:rgb(27, 27, 139);
    text-align: center;
    text-decoration-style:wavy;
    text-decoration-line:line-through overline underline ;
    text-decoration-color:rgb(238, 164, 189) ;
    text-decoration-thickness: 3px;
}
```

OUTPUT:

Welcome to this Page

text-decoration: text-decoration-line text-decoration-style;

It is double underline

It is dashed linethrough

It is dotted overline

It is a wavy combination of the lines

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.7</title>
    <link rel="stylesheet" type="text/css" href="practical 7.3.css">
</head>
<body>
    <h1>text-decoration-thickness</h1>
    <h1 id="h1">Length - 5px</h1>
    <h1 id="h2">Percentage - 50%</h1>
    <h1 id="h3">Auto</h1>
</body>
</html>
```

CSS CODE:

```
#h1{
    font-weight: normal;
    text-decoration-style: solid;
```

```css
    text-decoration-line: underline;
    text-decoration-thickness: 5px;
}
#h2{
    font-weight: normal;
    text-decoration-style: solid;
    text-decoration-line: underline;
    text-decoration-thickness: 50%;
}
#h3{
    font-weight: normal;
    text-decoration-style: solid;
    text-decoration-line: underline;
    text-decoration-thickness: auto;
}
```

OUTPUT:

text-decoration-thickness

Length - 5px

Percentage - 50%

Auto

HTML CODE:

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.7</title>
    <link rel="stylesheet" type="text/css" href="practical 7.4.css">
</head>
<body>
```

```
    <h2>text-decoration-color</h2>
    <h2 id="a1">Color name - red</h2>
    <h2 id="a2">RGB - rgb(23,199,87)</h2>
    <h2 id="a3">Hexadecimal - #4525f5</h2>
    <h2 id="a4">HSL - hsl(300,100%,80%)</h2>
</body>
</html>
```

CSS CODE:

```
#a1{
    font-weight: normal;
    text-decoration-style: solid;
    text-decoration-line:underline;
    text-decoration-color: red;
}
#a2{
    font-weight: normal;
    text-decoration-style: solid;
    text-decoration-line:underline;
    text-decoration-color: rgb(23,199,87);
}
#a3{
    font-weight: normal;
    text-decoration-style: solid;
    text-decoration-line:underline;
    text-decoration-color:#4525f5;
}
#a4{
    font-weight: normal;
    text-decoration-style: solid;
    text-decoration-line:underline;
    text-decoration-color:hsl(300,100%,80%);
}
```

OUTPUT:

text-decoration-color

Color name - red

RGB - rgb(23,199,87)

Hexadecimal - #4525f5

HSL - hsl(300,100%,80%)

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.7</title>
    <link rel="stylesheet" type="text/css" href="practical 7.5.css">
</head>
<body>
    <div class="a">
    <h2 class="a1">capitalize: the first character of each word is uppercased</h2>
    <h2 class="a2">uppercase: all characters are transformed to uppercase</h2>
    <h2 class="a3">lowercase: transforms all characters to lowercase</h2>
    <h2 class="a4">initial-reverts the property to its default value</h2>
    <h2 class="a5">inherit-takes the value from its parent element</h2>
    </div>
</body>
</html>
```

CSS CODE:

```
body{
    background-color: rgba(227, 46, 82, 0.875);
}
```

```
.a{
    color: white;
}
.a1{
    text-transform: capitalize;
}
.a2{
    text-transform: uppercase;
}
.a3{
    text-transform:lowercase;
}
.a4{
    text-transform: initial;
}
.a5{
    text-transform: inherit;
}
```

OUTPUT:

Capitalize: The First Character Of Each Word Is Uppercased

UPPERCASE: ALL CHARACTERS ARE TRANSFORMED TO UPPERCASE

lowercase: transforms all characters to lowercase

initial-reverts the property to its default value

inherit-takes the value from its parent element

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
```

```
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 7.6</title>
    <link rel="stylesheet" type="text/css" href="practical 7.6.css">
</head>
<body>
    <h1 id="h1">Spacing and Placement</h1>
    <h2 id="h2">Letter Spacing</h2>
    <p id="p1">letter - spacing :</p>
    <p id="p2">mel - :gnicaps - rettel</p>
    <h2 id="h3">Word Spacing</h2>
    <p id="p3">word-spacing: 1em</p>
    <p id="p4">It's a wide wide sentence.</p>
    <h2 id="h4">Line Height</h2>
    <p id="p5">line-height:1.5</p>
    <p id="p6">line-height:150%</p>
    <p id="p7">line-height:1.5em</p>
    <h2 id="h5">Text-Indent</h2>
    <p id="p8">text-indent:50px-text-indent only applies to the first line.
       The next lines will not be indented.
    </p>
    <p id="p9">text-indent:10%-text-indent only applies to the first line.
       The next lines will not be indented.</p>
</body>
</html>
```

CSS CODE:

```
body{
    text-align: center;
}
#p1{
    letter-spacing: 10px;
}
#p2{
    letter-spacing:3px ;
    text-align: left;
}
#p3{
    word-spacing: 0.5px;
```

```
}
#p4{
   word-spacing: 8px;
}
#p5{
   line-height: 1.5;
}
#p6{
   line-height: 150%;
}
#p7{
   line-height: 1.5em;
}
#p8{
   text-indent: 50px;
}
#p9{
   text-indent: 10%;
}
```

OUTPUT:

Spacing and Placement

Letter Spacing

l e t t e r - s p a c i n g :

m e l - : g n i c a p s - r e t t e l

Word Spacing

word-spacing: 1em

It's a wide wide sentence.

Line Height

line-height:1.5

line-height:150%

line-height:1.5em

Text-Indent

text-indent:50px-text-indent only applies to the first line. The next lines will not be indented.

text-indent:10%-text-indent only applies to the first line. The next lines will not be indented.

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.7</title>
    <link rel="stylesheet" type="text/css" href="practical 7.7.css">
</head>
<body>
    <div>
    <h1 id="h1">Ganpat University</h1>
    <h2 id="h2">Ganpat University</h1>
    <h3 id="h3">Ganpat University</h1>
    <h4 id="h4">Ganpat University</h1>
    <h5 id="h5">Ganpat University</h1>
        </div>
</body>
```

</html>

CSS CODE:

```css
#h1 {
 color: white;
 text-shadow: 2px 2px 4px #000000;
}
#h2 {
 color: red;
 text-shadow: 2px 2px;
}
#h3 {
 color: green;
 text-shadow: 2px 2px 4px #000000;
}
#h4 {
 text-shadow: 0 0 3px #ff0000, 0 0 5px #0000ff;
}
#h5 {
 color: white;
 text-shadow: 1px 1px 2px black, 0 0 25px blue, 0 0 5px
darkblue;
}
div{
   width: 300px;
 padding: 20px;
 border: 2px solid red;
 margin-bottom: 1px;
}
```

OUTPUT:

HTML CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>PRACTICAL 5.7</title>
    <link rel="stylesheet" type="text/css" href="practical 7.8.css">
</head>
<body>
    <div>
        <h1>Styling Lists With Colors</h1>
        <ol>
>
        <li>Ganpat University - Computer Engineering</li>
        <li>Ganpat University - Information Technology</li>
        <li>Ganpat University - Computer Engineering - AI</li>
    </ol>
    <ul>
        <li>Ganpat University - Computer Engineering</li>
        <li>Ganpat University - Information Technology</li>
        <li>Ganpat University - Computer Engineering - AI</li>
    </ul>
```

```
    </div>
</body>
</html>
```

CSS CODE:

```css
div{
   width: 500px;
 padding: 2px;
 border: 2px solid red;
 margin-bottom: 1px;
}
ol li {
   background: #ffe5e5;
   color: darkred;
   padding: 5px;
   margin-left:35px
}
ul li {
 background: #cce5ff;
 color: darkblue;
 margin: 5px;
}
ol {
 background: #ff9999;
 padding: 20px;
}
ul {
 background: #3399ff;
 padding: 20px;
}
```

OUTPUT:

Styling Lists With Colors

1. Ganpat University - Computer Engineering
2. Ganpat University - Information Technology
3. Ganpat University - Computer Engineering - AI

- Ganpat University - Computer Engineering
- Ganpat University - Information Technology
- Ganpat University - Computer Engineering - AI

PRACTICAL 5.8:

8.Write a Html code that demonstrates CSS List- Attribute using an Image as The List Item Marker, Position The List Item Markers, Styling List With Colors.

HTML CODE:

```
<!DOCTYPE html>
<html>
<head>
   <title>PRACTICAL 5.8
</title>
   <link rel="stylesheet" href="practical 5.8.css">
</head>
<body>


  <ul id="ul-bgcolor">
    <li>HTML</li>
    <li>CSS</li>
    <li>CSS Framework - Bootstrap</li>
    <li>PHP</li>
    <li>MySql</li>
  </ul>
  <ol id="ol-bgcolor">
    <li>HTML</li>
    <li>CSS</li>
    <li>CSS Framework - Bootstrap</li>
    <li>PHP</li>
    <li>MySql</li>
  </ol>


</body>
</html>
```
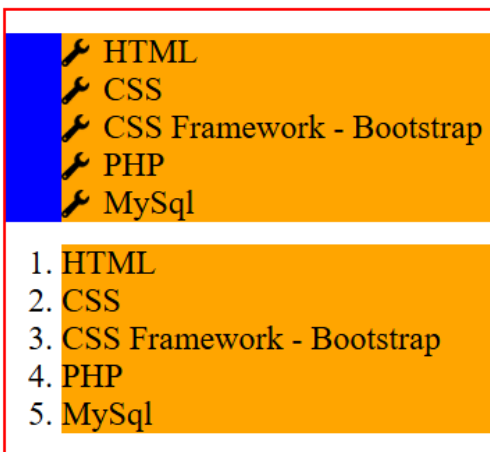
CSS CODE:

```
body{
   width: 350px;
```

```
    border: 2px solid red;
    margin-bottom: 1px;
}


#ul-bgcolor {
    list-style-type: none;
    background-color: blue;
    padding-left: 40px;
}
#ul-bgcolor li {
    background-color: orange;
    font-size: 24px;
    background-image: url('wrench.png');
    background-repeat: no-repeat;
    background-position: left center;
    background-size: 20px 20px;
    padding-left: 30px;
}


#ol-bgcolor li {
    background-color: orange;
    font-size: 24px;
}
```

OUTPUT:

PRACTICAL 5.9:

9. Write a Html code that displays the following output with CSS

HTML CODE:

```
<!DOCTYPE html>
<html>
<head>
   <title>PRACTICAL 5.9</title>
   <link rel="stylesheet" type="text/css" href="practical 5.9.css">
</head>
<body>

   <h1>Styling a link with background-color property</h1>
   <p><a href="https://www.ganpatuniversity.ac.in/" target="_blank">Ganpat
University</a></p>

</body>
</html>
```

CSS CODE:

```
   a:link {
      background-color: yellow;
      color: black;
      padding: 5px 10px;
   }
   a:visited {
      background-color: cyan;
      color: black;
      padding: 5px 10px;
   }
   a:hover {
      background-color: lightgreen;
   }
   a:active {
      background-color: hotpink;
   }
```

OUTPUT:

Styling a link with background-color property

Ganpat University