

**TAMILNADU GOVERNMENT POLYTECHNIC COLLEGE
MADURAI-11**



DEPARTMENT OF WEB DESIGNING

**57340 – WEB
FUNDAMENTALS PRACTICAL
RECORD**

Name: _____

Reg. No. _____

Roll No. _____

Semester: _____

**TAMILNADU GOVERNMENT POLYTECHNIC COLLEGE
MADURAI-11**



DEPARTMENT OF WEB DESIGNING

BONAFIDE CERTIFICATE

Name: **Reg. No.**.....

Roll No. **Semester:**

*Certify that this is a bonafide record of work
done by
in the **57340 – WEB FUNDAMENTALS PRACTICAL**
during the year 2024 - 2025*

RECORD MARK

Signature of Lab in-charge

Head of the Department

Submitted for the practical examination held on

Internal Examiner

External Examiner

List of Experiments

Ex No	Date	Name	Page	Marks	Signature
Part – A					
1		College Website			
2		Language List Page			
3		Adding Media Elements			
4		Class Timetable using CSS			
5		Banner Advertisement using CSS			
Part – B					
6		Responsive Navigation Menu			
7		Gradient Using CSS			
8		Pagination Using CSS			
9		Automatic Numbering Using CSS			
10		Responsive Image Gallery			

Aim:

To design a single page website for your polytechnic college containing description of the courses offered with general information about the college using table. Provide different color for different section within the webpage.

Algorithm:

Step1: Create a folder “Ex1” to place all the HTML files and Image files.

Step2: Create two HTML files “index.html” and “ex1sty.css”.

Step3: Create “index.html” page with the necessary HTML tags and use “style” attribute in the “ex1sty.css” file to provide design to HTML elements.

Step4: Use <table> tag to provide information about the college.

Step5: Use <section> tag to provide information about each course.

HTML Tag	Description
<header>	Specify title and heading
<article>	Represent an article
<section>	Specify the content of a section
<footer>	Specify footer content for the web page
<table>	Display data in table format
	Display data in unordered list format
<p>	Define a paragraph
<h>	Define header text

CSS Property	Description
background-color	Specify background color
text-align	Align text in an element
border	Specify border property
border-radius	Specify rounded corner radius
width, height	Specify width and height value

Source **index.html**

Code:

```

<!DOCTYPE html>
<html>
<head>
  <title>My College</title>
  <link rel="stylesheet" href="ex1sty.css">
</head>

<body>
<header>
  <h1>Welcome TNGPT</h1>
</header>

```

```

<article>
<section>
<table>
<tr>
<td><h3>About the College</h3></td>
<td>
<p>Tamilnadu Government Polytechnic College is a premier technical institute in the
Southern Region of India.
</p>
</td>
</tr>
<tr>
<td><h3>Mission</h3></td>
<td>
<p>Our Mission is to produce disciplined Quality Technocrats.</p>
</td>
</tr>
<tr>
<td><h3>Library</h3></td>
<td>
<p> A well established and spacious Library with multiple collection of books is housed
in the polytechnic college.
</p>
</td>
</tr>
<tr>
<td></td>
<td>
<h3>Courses Offered</h3>
<p>
<ul>
<li>Diploma in Civil</li>
<li>Diploma in Computer</li>
<li>Diploma in Wed Designing</li>
<li>Diploma in Electrical and Electronincs</li>
<li>Diploma in Mechanical Engineering</li>
<li>Diploma in Plastic & Polymer Technology</li>
</ul>
</p>
</td>
</tr>
</table>
</section>

<section class = "dce">
<h2>Diploma in Civil Engineering</h2>
<p> This course enables students learn about various construciton techniques</p>
</section>

```

```

<section class = "dcoe">
  <h2>Diploma in Computer Engineering</h2>
  <p> This course enables students learn about various Computer Programming Languages
  </p>
</section>

<section class = "dweb">
  <h2>Diploma in Web Designing</h2>
  <p> This course enables students learn about various Concepts that helps them to develop
    websites
  </p>
</section>

<section class="deee">
  <h2>Diploma in Electrical and Electronincs</h2>
  <p> This course enables students learn about Electrical devices </p>
</section>

<section class="dme">
  <h2>Diploma in Mechanical Engineering</h2>
  <p> This course enables students learn about mechanical devices</p>
</section>

<section class="dpt">
  <h2>Diploma in Plastic & Polymer Technology</h2>
  <p> This course enables students lean about chemicals and plastic</p>
</section>
</article>

<footer>
  Developed by K Anbarasan
</footer>
</body>
</html>

```

ex1sty.css

```

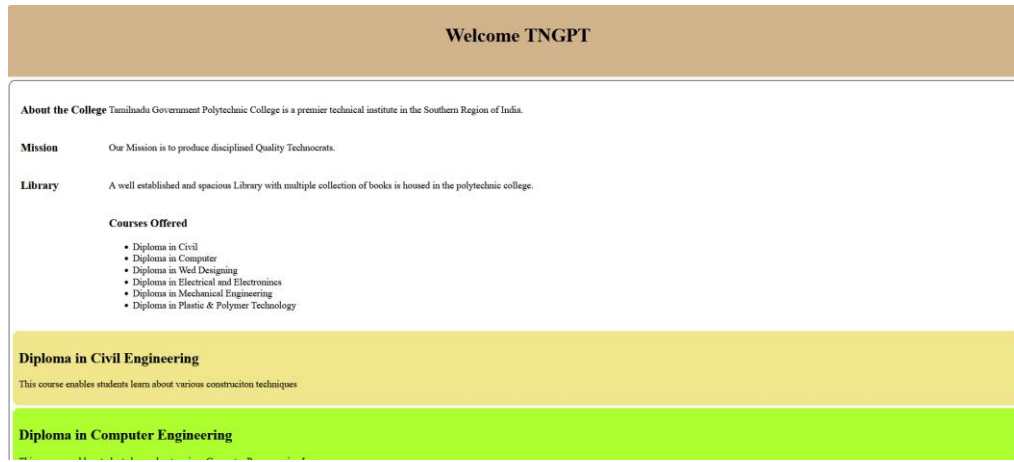
header {
  text-align:center;
  height: 100px;
  background-color: tan;
  padding: 10px;
  border-radius: 10px 10px 0px 0px;
}
article{
  border: 2px solid gray;
  border-radius: 10px;
  margin: 5px;
}

```

```
}
section{
    border-radius: 10px;
    padding: 10px;
    margin: 5px;
}
footer {
    text-align:center;
    font-size: 12px;
    height: 50px;
    line-height: 50px;
    background-color: tan;
    padding: 10px;
    border-radius: 10px;
}

.dce{
    background-color: khaki;
}
.dcoe{
    background-color: greenyellow;
}
.dweb{
    background-color: Lavender;
}
.deee{
    background-color: orange;
}
.dme{
    background-color: LightGrey;
}
.dpt{
    background-color: Pink;
}
```

Output:



Result:

Thus a Single page website is design for the polytechnic college which list out the courses offered with general information about the college using table. Also providing different color for different section within the webpage.

Aim:

To design a HTML page about computer languages. List each language as list with link. Prepare separate page for each language and open them in the appropriate link

Algorithm:

Step1: Create a folder “Ex2” to place all the HTML files.

Step2: Create five HTML files “index.html”, “clang.html”, “java.html”, “php.html”, “python.html” and “ex2sty.css”.

Step3: Create “index.html” page with the necessary HTML tags and use “style” attribute in the “ex2sty.css” file to provide design to HTML elements.

Step4: Use <a> tag to provide links to “clang.html”, “java.html”, “php.html” and “python.html” page in “index.html” page.

Step5: Create “clang.html”, “java.html”, “php.html” and “python.html” page with necessary information and provide link to home in nav section.

HTML Tag	Description	CSS Property	Description
<header>	Specify title and heading	background-color	Specify background color
<article>	Represent an article	text-align	Align text in an element
<section>	Specify the content of a section	border	Specify border property
<nav>	Define set of navigation links	border-radius	Specify rounded corner radius
<a>	Specify a link to another web page	width, height	Specify width and height value
	Display data as ordered list format	text-decoration	Specify underline, overline and strikethrough
<p>	Define a paragraph	text-indent	Specify space for first line text
<h>	Define header text	text-align	Specify text alignment
 	Specify line break	font-size	Specify size of the font
<hr>	Draw horizontal line		

Source **index.html**

Code:

```
<!DOCTYPE html>
<html>
<head>
<title>Computer Languages</title>
<link rel="stylesheet" href="ex3sty.css">
</head>
<body>
<header>
<h1>List of Computer Languages</h1>
</header>
```

```

<hr>
<article>
  <section>
    <h2>Computer Languages</h1>
    <ol>
      <li><a href = "clang.html">C Language</a></li>
      <li><a href = "java.html">Java Language</a></li>
      <li><a href = "php.html">PHP Language</a></li>
      <li><a href = "python.html">Python Language</a></li>
    </ol>
  </section>
</article>
<footer>
  Developed by K Anbarasan
</footer>
</body>
</html>

```

clang.html

```

<!DOCTYPE html>
<html>
  <head>
    <title>C Language</title>
    <link rel="stylesheet" href="ex3sty.css">
  </head>
  <body>
    <header>
      <h1>C Language</h1>
    </header>
    <nav>
      <a href = "index.html">Home</a>
    </nav>
    <hr>
    <article>
      <section>
        <p> The C Language is developed by Dennis Ritchie.
          C programming is considered as the base for other programming languages.
        </p>
      </section>
    </article>
    <footer>
      Developed by K Anbarasan
    </footer>
  </body>
</html>

```

java.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Java Language</title>
    <link rel="stylesheet" href="ex3sty.css">
  </head>
  <body>
    <header>
      <h1>Java Language</h1>
    </header>
    <nav>
      <a href = "index.html">Home</a>
    </nav>
    <hr>
    <article>
      <section>
        <p> Java is a powerful general-purpose programming language.
          It is used to develop desktop and mobile applications, big data processing, embedded
systems, and so on.
        </p>
      </section>
    </article>
    <footer>
      Developed by K Anbarasan
    </footer>
  </body>
</html>
```

php.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>PHP Language</title>
    <link rel="stylesheet" href="ex3sty.css">
  </head>
  <body>
    <header>
      <h1>PHP Language</h1>
    </header>
    <nav>
      <a href = "index.html">Home</a>
    </nav>
    <hr>
    <article>
      <section>
        <p> PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source
```

general-purpose scripting language that is especially suited for web development and can be embedded into HTML.

```
</p>
</section>
</article>
<footer>
  Developed by K Anbarasan
</footer>
</body>
</html>
```

python.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Python Language</title>
    <link rel="stylesheet" href="ex3sty.css">
  </head>
  <body>
    <header>
      <h1>Python Language</h1>
    </header>
    <nav>
      <a href = "index.html">Home</a>
    </nav>
    <hr>
    <article>
      <section>
        <p> Python is a high-level, interpreted, interactive and object-oriented scripting language.
          Python is designed to be highly readable.
        </p>
      </section>
    </article>
    <footer>
      Developed by K Anbarasan
    </footer>
  </body>
</html>
```

Ex2sty.css

```
header {
  text-align:center;
  height: 100px;
  background-color: #ffe697;
  padding: 10px;
  border-radius: 10px 10px 0px 0px;
}
```

```
footer {
    text-align:center;
    font-size: 12px;
    height: 50px;
    line-height: 50px;
    background-color: #ffe697;
    padding: 10px;
    border-radius: 10px;
}
img{
    width: 100px;
    height: 100px;
}
article{
    width: auto;
    border: 2px solid gray;
    padding: 10px;
    border-radius: 10px;
    margin:5px;
}
```

Output:

List of Computer Languages

Computer Languages

1. [C Language](#)
2. [Java Language](#)
3. [PHP Language](#)
4. [Python Language](#)

Developed by K Anbarasan

C Language

[Home](#)

The C Language is developed by Dennis Ritchie. C programming is considered as the base for other programming languages.

Developed by K Anbarasan

Java Language

[Home](#)

Java is a powerful general-purpose programming language. It is used to develop desktop and mobile applications, big data processing, embedded systems, and so on.

Developed by K Anbarasan

PHP Language

[Home](#)

PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.

Developed by K Anbarasan

Result:

Thus a HTML page is designed to list languages and provide link for each language is viewed in a browser and results were verified.

Aim: To create a HTML page to display Media Elements.

Algorithm:

Step1: Create a folder “Ex3” to place the HTML files.

Step2: Create HTML file “index.html”.

Step3: Create a folder "media" and place the audio and video files in it.

Step4: Add <audio> and <video> tags to show the media elements in the webpage.

Source **index.html**

Code:

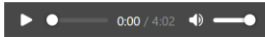
```
<!DOCTYPE html>
<html>
  <head>
    <title>Media Elements</title>
  <style>
    header {
      text-align:center;
      height: 100px;
      background-color: BurlyWood ;
      padding: 10px;
      border-radius: 10px 10px 0px 0px;
    }
    footer {
      text-align:center;
      font-size: 12px;
      height: 50px;
      line-height: 50px;
      background-color: BurlyWood ;
      padding: 10px;
      border-radius: 10px;
    }
    article{
      width: auto;
      padding: 10px;
      margin:5px;
      overflow-x: auto;
    }
  </style>
</head>
<body>
  <header>
    <h1>Audio/Video Playback</h1>
  </header>
  <hr>
  <article>
    <h3>Audio Playback</h3>
    <audio controls>
```

```
        <source src="media/Born_For_This.mp3" type="audio/mp3">
    </audio>
</article>
<article>
    <h3>Video Playback</h3>
    <video width="400px" height="auto" controls>
        <source src="media/bike.mp4" type="video/mp4">
    </video>
</article>
<footer>
    Developed by K Anbarasan
</footer>
</body>
</html>
```

Output:

Audio/Video Playback

Audio Playback



Video Playback



Result: Thus a website is created to display media elements.

Ex No: 4**CLASS TIME TABLE****Aim:**

To design a webpage to display Class Time Table using different CSS border property.

Algorithm:

Step1: Create a folder “Ex4” to place all the HTML files.

Step2: Create HTML file “index.html”.

Step3: Use HTML <table> tag to create Time Table and add necessary CSS property.

HTML Tag	Description
<header>	Specify title and heading
<article>	Represent an article
<section>	Specify the content of a section
<table>	Display data in table format
<h>	Define header text

CSS Property	Description
background-color	Specify background color
text-align	Align text in an element
border	Specify border property
transition	Provide smooth Transition on CSS property
hover	Pseudo Class activate when mouse over an element
border-radius	Specify rounded corner radius
border-collapse	Combine multiple border into single border
width, height	Specify width and height value
writing-mode	Specify text direction and orientation
font-size	Specify size of the font

Source index.html

Code: <!DOCTYPE html>
<html>
 <head>
 <title>Time Table</title>
 <style>
 header {
 text-align:center;
 height: 100px;
 background-color: lightgray;
 padding: 10px;
 border-radius: 10px 10px 0px 0px;
 }
 nav{
 background-color: lightgray;
 text-align:left;

```
font-size:15px;
}
footer {
text-align:center;
font-size: 12px;
height: 50px;
line-height: 50px;
background-color: lightgray;
padding: 10px;
border-radius: 10px;
}
article{
width: auto;
border: 2px solid gray;
padding: 10px;
border-radius: 10px;
margin:5px;
overflow-x: auto;
}
table, tr, th, td{
margin: auto;
padding: 10px;
text-align: center;
border-collapse: collapse;
border: 1px solid black;
}
.day{
text-align:left;
font-size:18px;
font-style:italic;
font-weight: bold;
}
.pract{
border: double blue;
text-align: center;
transition: background-color 5s;
}
.pract:hover{
background-color: yellow;
}
.vtext{
writing-mode: vertical-lr;
width: 15px;
padding: 5px;
}
</style>
</head>
<body>
<header>
```

```

<h1>Class Time Table</h1>
</header>
<article>
<table>
  <tr>
    <th>Day</th>
    <th>09:00-10:00 AM</th>
    <th>10:00-11:00 AM</th>
    <th>11:00-12:00 AM</th>
    <th>12:00-01:00 PM</th>
    <th rowspan="6" class="vtext">Lunch Break</th>
    <th>01:30-02:30 PM</th>
    <th>02:30-03:30 PM</th>
    <th>03:30-04:30 PM</th>
  </tr>
  <tr>
    <td class="day">Monday</td>
    <td>C Prog</td>
    <td class="pract" colspan="3"> C Practical</td>
    <td>OS</td>
    <td>BEEE</td>
    <td>OS</td>
  </tr>
  <tr>
    <td class="day">Tuesday</td>
    <td class="pract" colspan="2">BEEE Lab</td>
    <td>C Prog</td>
    <td>OS</td>
    <td colspan="2" class="pract">OS Lab</td>
    <td>BEEE</td>
  </tr>
  <tr>
    <td class="day">Wednesday</td>
    <td>BEEE</td>
    <td class="pract" colspan="2">Computer Application Lab</td>
    <td>C Prog</td>
    <td class="pract" colspan="2">BEEE Lab</td>
    <td>OS</td>
  </tr>
  <tr>
    <td class="day">Thursday</td>
    <td class="pract" colspan="3">C Practical</td>
    <td>C Prog</td>
    <td class="pract" colspan="2">Computer Application Lab</td>
    <td>BEEE</td>
  </tr>
  <tr>
    <td class="day">Friday</td>
    <td>Seminar</td>

```

```
<td class="pract" colspan="2">OS Lab</td>
<td>C Prog</td>
<td>OS</td>
<td>BEEE</td>
<td>C Prog</td>
</tr>
</table>
</article>
<footer>
  Developed by K Anbarasan
</footer>
</body>
</html>
```

Output:

Class Time Table								
Day	09:00-10:00 AM	10:00-11:00 AM	11:00-12:00 AM	12:00-01:00 PM		01:30-02:30 PM	02:30-03:30 PM	03:30-04:30 PM
Monday	C Prog	C Practical			Lunch Break	OS	BEEE	OS
Tuesday	BEEE Lab		C Prog	OS		OS Lab		BEEE
Wednesday	BEEE	Computer Application Lab		C Prog		BEEE Lab		OS
Thursday	C Practical			C Prog		Computer Application Lab		BEEE
Friday	Seminar	OS Lab		C Prog		OS	BEEE	C Prog
Developed by K Anbarasan								

Result: Thus a webpage is designed to display Class Time Table using different CSS border property.

Aim:

To design a webpage to display Banner Advertisement using CSS.

Algorithm:

Step1: Create a folder “Ex5” to place all the HTML files.

Step2: Create HTML file “index.html”.

Step3: Use CSS animation and Keyframe property to perform Banner Advertisement.

HTML Tag	Description	CSS Property	Description
<header>	Specify title and heading	background-color	Specify background color
<article>	Represent an article	text-align	Align text in an element
<section>	Specify the content of a section	transform	Places the element in the given position
<table>	Display data in table format	hover	Pseudo Class activate when mouse over an element
<h>	Define header text	animation	Specify keyframes to be animated and its properties
		@keyframes	Provides information about animation at specific frame

Source **index.html****Code:**

```
<!DOCTYPE html>
<html>
<head>
<title>Banner Advertisement</title>
<style>
header {
    text-align:center;
    height: auto;
    background-color: olive;
    padding: 10px;
    color: white;
    border-radius: 10px 10px 0px 0px;
    position: relative;
}
header > h1{
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%, -50%);
}
footer {
    text-align:center;
```

```

        font-size: 12px;
        height: 50px;
        line-height: 50px;
        background-color: olive;
        padding: 10px;
        border-radius: 10px;
    }
    .banner {
        position: auto;
        width: 100%;
        height: 250px;
        overflow: hidden;
        border-radius: 10px;
        box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
        animation: slide 10s infinite;
    }
    @keyframes slide {
        0% { background-image: url('images/1.jpg'); }
        25% { background-image: url('images/2.jpg'); }
        50% { background-image: url('images/3.jpg'); }
        75% { background-image: url('images/4.jpg'); }
        100% { background-image: url('images/1.jpg'); }
    }
</style>
</head>

<body>
    <header class="banner">
        <h1>Banner Advertisement</h1>
    </header>
    <hr>
    <p> This Page displays the use of Banner Advertisement.
    </p>
    <footer>
        Developed by K Anbarasan
    </footer>
</body>
</html>

```

Output:



This Page displays the use of Banner Advertisement.



This Page displays the use of Banner Advertisement.



Result: Thus a webpage is designed to display Banner Advertisement using CSS.

Aim: To design a HTML page about computer languages. List each language as list with link. Prepare separate page for each language and open them in the appropriate link

Algorithm:

Step1: Create a folder “Ex6” to place the HTML files.

Step2: Create HTML file “index.html”.

Step3: Use CSS media queiries to set css property for the navigation menu.

CSS Property	Description
@media screen	querise the screen size
max-width, min-width	Specify maximum and minimum width for media queries
background-color	Specify background color
text-align	Align text in an element
border	Specify border property
border-radius	Specify rounded corner radius
width, height	Specify width and height value
font-size	Specify size of the font

Source **index.html**

Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>Responsive Nav</title>
  <style>
    header {
      text-align: center;
      height: 100px;
      background-color: #60dd5a;
      padding: 10px;
      border-radius: 10px 10px 0px 0px;
    }
    article {
      width: auto;
      border: 2px solid gray;
      padding: 10px;
      border-radius: 10px;
      margin: 5px;
    }
    footer {
      text-align: center;
      font-size: 12px;
```

```

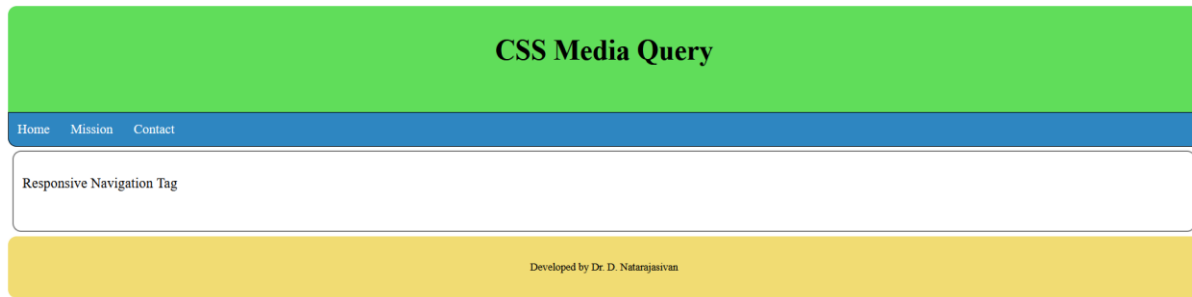
        height: 50px;
        line-height: 50px;
        background-color: #f1dc73;
        padding: 10px;
        border-radius: 10px;
    }
    /* Default background color for larger screens */
    nav {
        background-color: #2e86c1;
        text-align: left;
        font-size: 15px;
        padding: 10px;
        border: solid 1px black;
        border-radius: 0px 0px 10px 10px;
    }
    nav a {
        margin-right: 20px;
        color: #fff;
        text-decoration: none;
    }
    /* Responsive CSS for smaller screens */
    @media screen and (max-width: 720px) and (min-width:480px) {
        nav {
            background-color: #f1c40f; /* Change background color */
            text-align: center;
        }
        nav a {
            color:black;
            margin-left: 20px;
            padding-left: 20px;
            border-left: 2px solid black;
        }
    }

    /* Responsive CSS for smaller screens */
    @media screen and (max-width: 480px) {
        nav {
            background-color: #e74c3c; /* Change background color */
            text-align: center;
        }
        nav a {
            display: block;
            margin: 5px;
            padding-bottom: 5px;
            border-bottom: 1px dotted black;
        }
    }
</style>
</head>

```

```
<body>
  <header>
    <h1>CSS Media Query</h1>
  </header>
  <nav>
    <a href="#home">Home</a>
    <a href="#mission">Mission</a>
    <a href="#contact">Contact</a>
  </nav>
  <article>
    <p>
      Responsive Navigation Tag
    </p>
    <br>
  </article>
  <footer>
    Developed by Dr. D. Natarajasivan
  </footer>
</body>
</html>
```

Output:



Result:

Thus a webpage is designed show a responsive navigation menu that changes based on the size of the screen using media queries.

Aim: To design a webpage to show different types of gradients using css.

Algorithm:

Step1: Create a folder “Ex7” to place the HTML files.

Step2: Create HTML file “index.html”.

Step3: Use CSS gradient options to show various gradients.

CSS Property	Description
linear-gradient, radial-gradient, conic-gradient	Create different gradient color options
background-color	Specify background color
text-align	Align text in an element
border	Specify border property
border-radius	Specify rounded corner radius
width, height	Specify width and height value
font-size	Specify size of the font

Source **index.html**

Code:

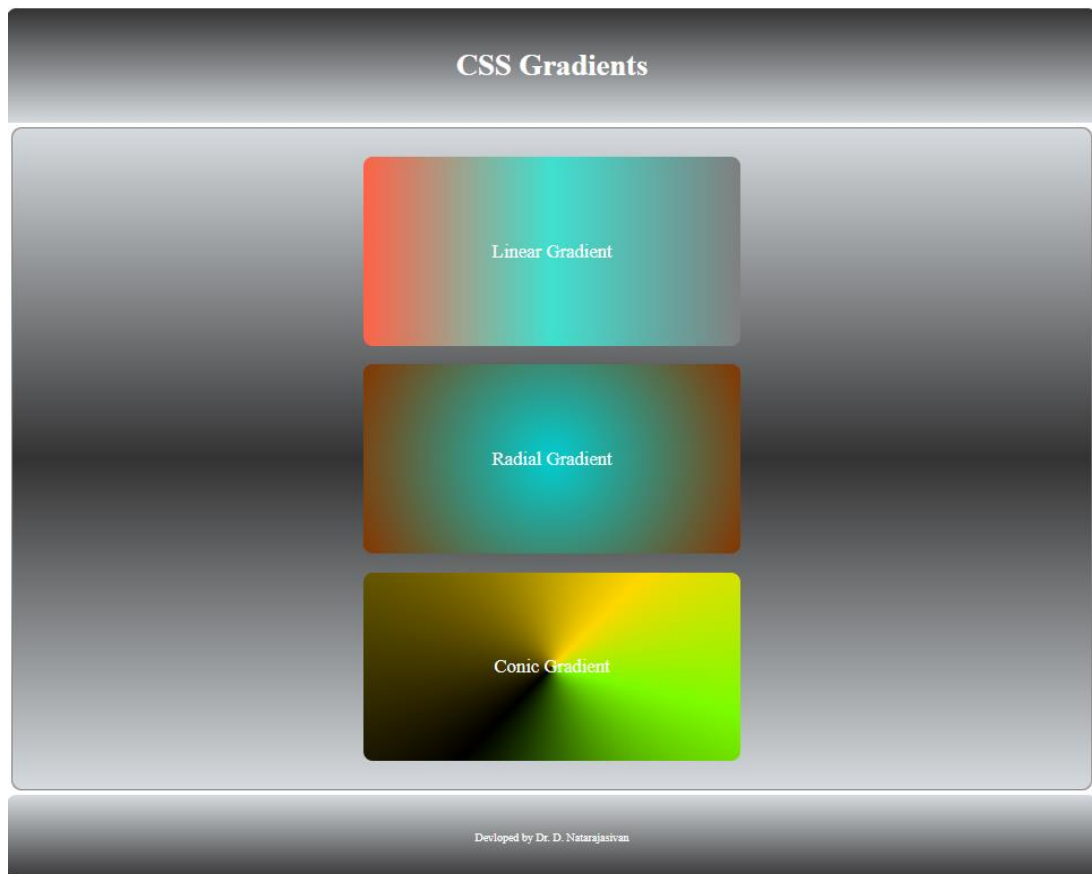
```
<!DOCTYPE html>
<html>
<head>
<title>CSS Gradients</title>
<style>
  header {
    background: linear-gradient(to bottom, #333, #d6dbdf);
    color: #fff;
    text-align: center;
    padding: 20px;
    border-radius: 10px 10px 0px 0px;
  }
  article {
    width: auto;
    border: 2px solid gray;
    padding: 10px;
    border-radius: 10px;
    margin: 5px;
    background: linear-gradient(to top, #d6dbdf, #333, #d6dbdf);
  }
  footer {
    text-align: center;
    font-size: 12px;
    height: 50px;
    line-height: 50px;
```

```

        color: white;
        background: linear-gradient(to top, #333, #d6dbdf);
        padding: 20px;
        border-radius: 10px;
    }
    .gradient-box {
        width: 400px;
        height: 200px;
        margin: 20px auto;
        border-radius: 10px;
        text-align: center;
        line-height: 200px;
        font-size: 20px;
        color: #fff;
    }
    .linear-gradient {
        background: linear-gradient(to right, #ff6347, #40e0d0, gray);
    }
    .radial-gradient {
        background: radial-gradient(circle, #01ced1, #873600);
    }
    .conic-gradient {
        background: conic-gradient(from 45deg, #ffd700, #7cfc00 60deg, black 180deg, #ffd700);
    }
</style>
</head>
<body>
    <header>
        <h1>CSS Gradients</h1>
    </header>
    <article>
        <div class="gradient-box linear-gradient">
            Linear Gradient
        </div>
        <div class="gradient-box radial-gradient">
            Radial Gradient
        </div>
        <div class="gradient-box conic-gradient">
            Conic Gradient
        </div>
    </article>
    <footer>
        Developed by Dr. D. Natarajasivan
    </footer>
</body>
</html>

```

Output:



Result: Thus a webpage is designed to show different types of gradients using CSS.

Ex No: 8**PAGINATION USING CSS****Aim:**

To design a webpage to show responsive pagination using CSS.

Algorithm:

Step1: Create a folder “Ex8” to place the HTML files.

Step2: Create HTML file “index.html”.

Step3: Use CSS Hover and active classes to implement Pagination.

CSS Property	Description
text-decoration	specify text style
background-color	Specify background color
text-align	Align text in an element
border	Specify border property
border-radius	Specify rounded corner radius
width, height	Specify width and height value
font-size	Specify size of the font

Source **index.html**

Code:

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS Pagination with JavaScript</title>
<style>

  header {
    background: #333333;
    color: #fff;
    text-align: center;
    padding: 20px;
    border-radius: 10px 10px 0px 0px;
  }
  article {
    width: auto;
    border: 2px solid gray;
    padding: 10px;
    border-radius: 10px;
    margin: 5px;
  }
  footer {
    text-align: center;
    font-size: 12px;
    height: 50px;
    line-height: 50px;
```

```
        color: white;
        background: #333333;
        padding: 20px;
        border-radius: 10px;
    }
.pag-cont {
    max-width: 600px;
    margin: 0 auto;
    padding: 20px;
}

.content-page {
    display: none;
    padding: 20px;
    border: 1px solid #ccc;
    border-radius: 10px;
}

.content-page.active {
    display: block;
}

.pagination {
    text-align: center;
    margin-top: 10px;
}

.pagination a {
    display: inline-block;
    padding: 5px 10px;
    margin-right: 5px;
    text-decoration: none;
    color: #000;
    border: 1px solid #ccc;
    cursor: pointer;
}

.pagination a.active {
    background-color: #333333;
    color: #ffffff;
}

.pagination a:hover:not(.active) {
    background-color: #dddddd;
    border-radius: 5px;
}
</style>
</head>
<body>
```

```
<header>
  <h1>CSS Pagnation</h1>
</header>
<article>
  <div class="pag-cont">
    <div class="content-page " id="page1">
      <h2>Page 1</h2>
      <p>This is the content of Page 1.</p>
    </div>
    <div class="content-page active" id="page2">
      <h2>Page 2</h2>
      <p>This is the content of Page 2.</p>
    </div>
    <div class="content-page" id="page3">
      <h2>Page 3</h2>
      <p>This is the content of Page 3.</p>
    </div>
    <!-- Add more content pages as needed -->

    <!-- Pagnation navigation links -->
    <div class="pagination">
      <a href="#" >1</a>
      <a href="#" class="active" >2</a>
      <a href="#" >3</a>
      <!-- Add more navigation links as needed -->
    </div>
  </div>
</article>
<footer>
  Developed by Dr. D. Natarajasivan
</footer>
</body>
</html>
```

Output:



Result: Thus a webpage is designed to show responsive pagination using CSS.

Aim:

To design a webpage implement CSS counters for automatic numbering.

Algorithm:

Step1: Create a folder “Ex9” to place the HTML files.

Step2: Create HTML file “index.html”.

Step3: Use CSS Counters property to create automatic numbering.

CSS Property	Description
counter-reset	reset the counter value to zero
counter-increment	Increment the counter value by 1
content	Content to be displayed with counter value
border	Specify border property
border-radius	Specify rounded corner radius
width, height	Specify width and height value
font-size	Specify size of the font

Source **index.html****Code:**

```
<!DOCTYPE html>
<html>
<head>
  <title>Automatic Numbering</title>
  <style>

    header {
      background: #333333;
      color: #fff;
      text-align: center;
      padding: 20px;
      border-radius: 10px 10px 0px 0px;
    }
    article {
      width: auto;
      border: 2px solid gray;
      padding: 10px;
      border-radius: 10px;
      margin: 5px;
    }
    footer {
      text-align: center;
      font-size: 12px;
      height: 50px;
      line-height: 50px;
```

```

        color: white;
        background: #333333;
        padding: 20px;
        border-radius: 10px;
    }
body{
    counter-reset: article;
}
h3::before{
    counter-increment: article;
    content: "Topic " counter(article) ". ";
}
article{
    counter-reset: section;
}
h4::before{
    counter-increment: section;
    content: counter(article)". "counter(section) " ";
}
</style>
</head>
<body>
    <header>
        <h1>Automatic Numbering</h1>
    </header>
<article>
    <h3>Text Formatting</h3>
    <section>
        <h4>Text Color</h4>
        <p>CSS color property is used</p>
    </section>
    <section>
        <h4>Text Alignment</h4>
        <p>CSS text-align property is used</p>
    </section>
    <section>
        <h4>Text Shadow</h4>
        <p>CSS text-shadow property is used</p>
    </section>
</article>
<article>
    <h3>Fonts</h3>
    <section>
        <h4>Font Family</h4>
        <p>CSS font-family property is used</p>
    </section>
    <section>
        <h4>Font size</h4>
        <p>CSS font-size property is used</p>
    </section>

```

</section>

</article>

<footer>

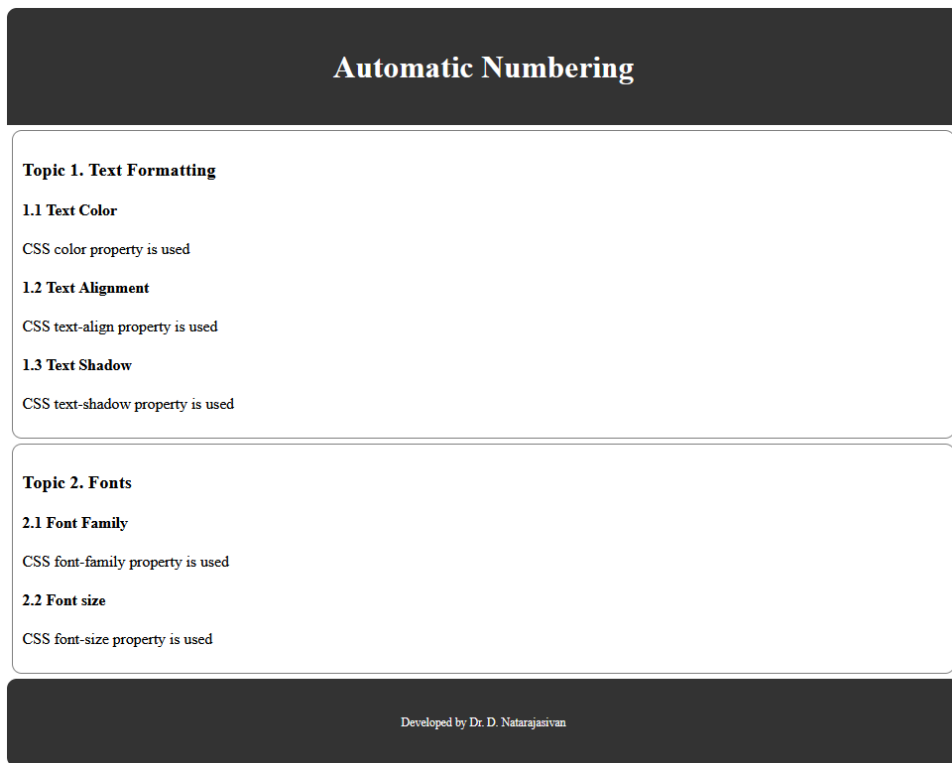
Developed by Dr. D. Natarajasivan

</footer>

</body>

</html>

Output:



Result: Thus a webpage is designed to implement CSS automatic numbering successfully.

Ex No: 10**RESPONSIVE IMAGE GALLERY****Aim:**

To design a webpage to implement responsive image gallery.

Algorithm:

Step1: Create a folder “Ex10” to place the HTML files.

Step2: Create HTML file “index.html”.

Step3: Use CSS Flex property to create flex container.

Step4: Store images in "images" folder.

CSS Property	Description
display:flex	Create a flexible container
flex-direction	Direction of item display
flex-wrap	Display of overflow items
justify-content	Display of item in the flex container
gap	Space between items in the flex
@media	Get device context
border	Specify border property
width, height	Specify width and height value

Source **index.html****Code:**

```
<!DOCTYPE html>
<html>
<head>
  <title>Responsive Image Gallery</title>
  <style>

    header {
      background: #333333;
      color: #fff;
      text-align: center;
      padding: 20px;
      border-radius: 10px 10px 0px 0px;
    }
    footer {
      text-align: center;
      font-size: 12px;
      height: 50px;
      line-height: 50px;
      color: white;
      background: #333333;
      padding: 20px;
      border-radius: 10px;
```

```

    }
div.gallery {
    border: 1px solid #ccc;
}

div.gallery:hover {
    border: 1px solid #F66;
}

div.gallery img {
    width: 100%;
    height: 50%;
}

div.desc {
    padding: 15px;
    text-align: center;
}

* {
    box-sizing: border-box;
}

.responsive {
    padding: 0 6px;
    float: left;
    width: 29.99999%;
}

@media only screen and (max-width: 700px) {
    .responsive {
        width: 49.99999%;
        margin: 6px 0;
    }
}

@media only screen and (max-width: 500px) {
    .responsive {
        width: 100%;
    }
}

.clearfix:after {
    content: "";
    display: table;
    clear: both;
}
</style>
</head>
<body>

```

```
<header>
  <h1>Responsive Image Gallery</h1>
</header>
```

```
<div class="responsive">
  <div class="gallery">
    <a target="_blank" href="images/img1.jpg">
      
    </a>
    <div class="desc">Dog Photo</div>
  </div>
</div>
```

```
<div class="responsive">
  <div class="gallery">
    <a target="_blank" href="images/img2.jpg">
      
    </a>
    <div class="desc">Dog Photo</div>
  </div>
</div>
```

```
<div class="responsive">
  <div class="gallery">
    <a target="_blank" href="images/img3.jpg">
      
    </a>
    <div class="desc">Dog Photo 1</div>
  </div>
</div>
```

```
<div class="responsive">
  <div class="gallery">
    <a target="_blank" href="images/img4.jpg">
      
    </a>
    <div class="desc">Dog Photo</div>
  </div>
</div>
```

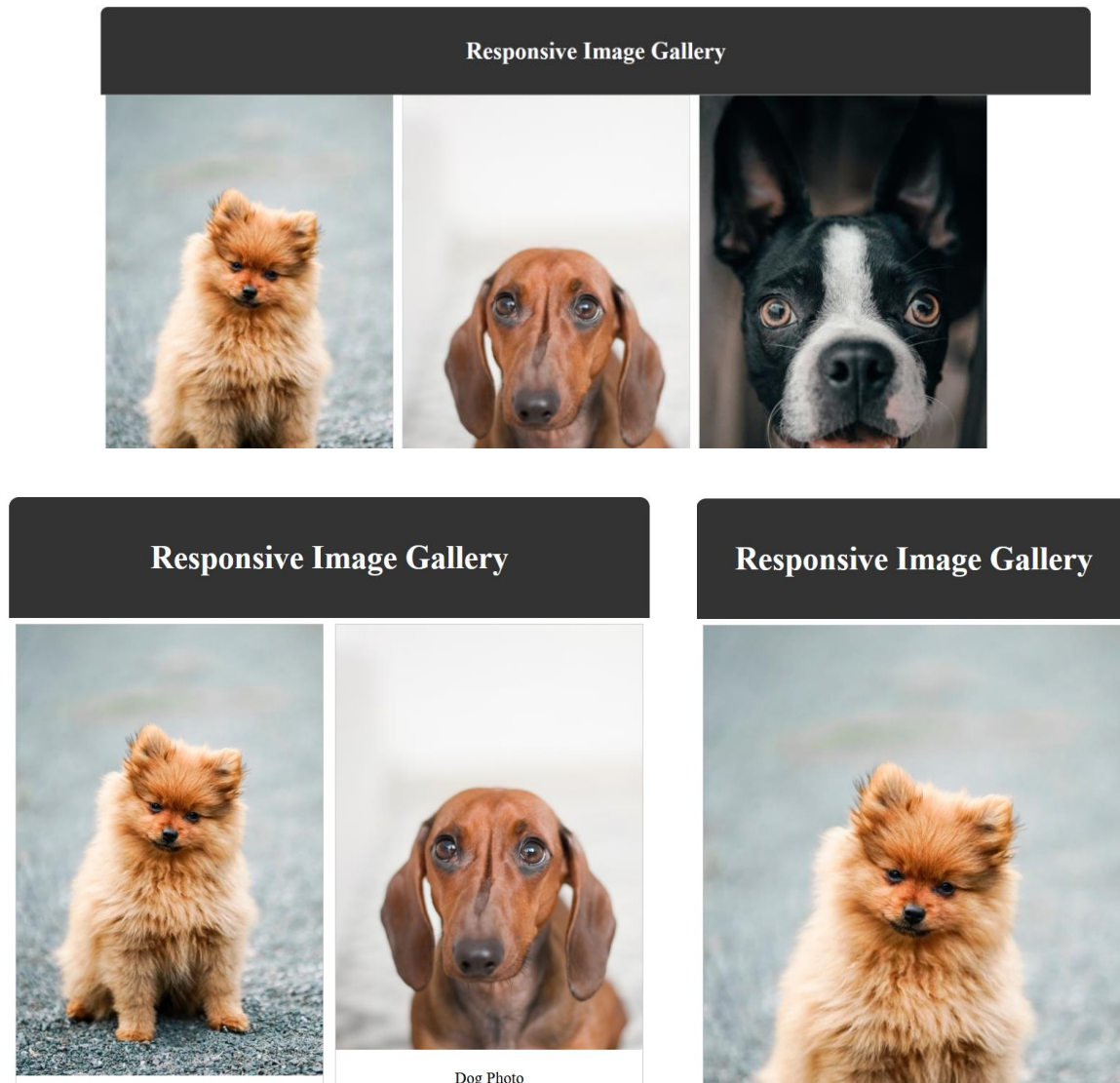
```
<div class="responsive">
  <div class="gallery">
    <a target="_blank" href="images/img5.jpg">
      
    </a>
    <div class="desc">Dog Photo</div>
  </div>
</div>
```

```
<div class="responsive">
  <div class="gallery">
    <a target="_blank" href="images/img6.jpg">
      
    </a>
    <div class="desc">Dog Photo</div>
  </div>
</div>
```

```
<div class="clearfix"></div>
```

```
<footer>
  Developed by Dr. D. Natarajasivan
</footer>
</body>
</html>
```

Output:



Result: Thus a webpage is designed to implement Responsive Image Gallery using CSS.