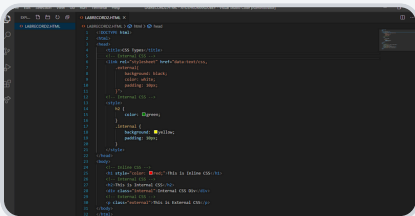


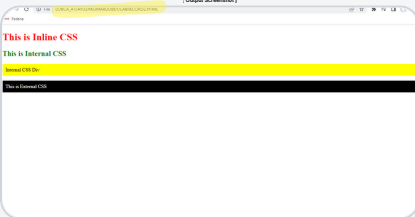
2.1 Apply Inline, Internal, and External CSS styles to HTML elements



[Code Screenshot]

+

[Output Screenshot]



2.2 Style a web page using advanced CSS: Box Model, background images, borders, margins, and padding

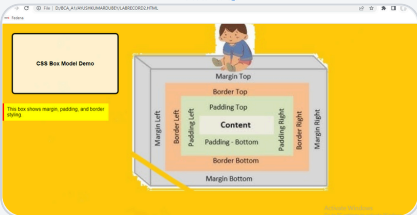
```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Advanced CSS Demo</title>
5 <style>
6 /* Page background image */
7 body {
8 background-image: url('bg720.jpg');
9 background-size: cover;
10 background-position: center;
11 font-family: Arial, sans-serif;
12 }
13 /* Box model example */
14 .box {
15 width: 300px;
16 height: 200px;
17 background: #ffff00;
18 border: 4px solid #000;
19 border-radius: 10px;
20 padding: 20px; /* Inside space */
21 margin: 10px; /* Outside space */
22 display: flex;
23 justify-content: center;
24 align-items: center;
25 font-size: 18px;
26 font-weight: bold;
27 }
28 /* Another element to show margin effect */
29 .note {
30 background: #ffff00;
31 padding: 10px;
32 }
```

```
17 background: #ffff00;
18 border: 4px solid #000;
19 border-radius: 10px;
20 padding: 20px; /* Inside space */
21 margin: 10px; /* Outside space */
22 display: flex;
23 justify-content: center;
24 align-items: center;
25 font-size: 18px;
26 font-weight: bold;
27 }
28 /* Another element to show margin effect */
29 .note {
30 background: #ffff00;
31 padding: 10px;
32 border-left: 4px solid #000;
33 border-right: 4px solid #000;
34 margin-top: 10px;
35 width: 300px;
36 }
37
38 </style>
39 </head>
40 <body>
41 <div class="box">
42 CSS Box Model Demo
43 </div>
44 <div class="note">
45 This box shows margin, padding, and border styling.
46 </div>
47 </body>
48 </html>
```

HTML + CSS



Rendered Web Page



Demonstrates the CSS Box Model (Margin → Border → Padding → Content).

2.3 Demonstrate the use of different CSS selectors (class, id, descendant, group, universal)

```
LABRECORD2.HTML
<!DOCTYPE html>
<html>
<head>
<title>CSS selectors Demo</title>
<style>
/* 1. Universal Selector */
* {
font-family: Arial;
margin: 5px;
}

/* 2. Class Selector */
.class {
background-color: #lightblue;
padding: 10px;
border: 1px solid #blue;
}

/* 3. ID Selector */
#id {
background-color: #black;
color: #white;
padding: 10px;
}

/* 4. Group Selector */
h1, h2 {
color: #green;
text-decoration: underline;
}

/* 5. Descendant Selector */
div p {
background-color: #yellow;
padding: 5px;
}
</style>
<body>
<div class="class">
</div>
<div id="id">
</div>
<div>
<h1>Group Selector Applied</h1>
<h2>Group Selector Applied</h2>
<div>
<p>This paragraph is inside a div -> Descendant Selector applied</p>
</div>
</body>
</html>
```

```
LABRECORD2.HTML
<!DOCTYPE html>
<html>
<head>
<title>CSS selectors Demo</title>
<style>
/* 1. Universal Selector */
* {
font-family: Arial;
margin: 5px;
}

/* 2. Class Selector */
.class {
background-color: #lightblue;
padding: 10px;
border: 1px solid #blue;
}

/* 3. ID Selector */
#id {
background-color: #black;
color: #white;
padding: 10px;
}

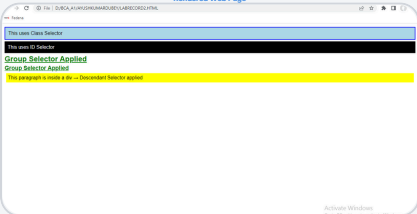
/* 4. Group Selector */
h1, h2 {
color: #green;
text-decoration: underline;
}

/* 5. Descendant Selector */
div p {
background-color: #yellow;
padding: 5px;
}
</style>
<body>
<div class="class">
</div>
<div id="id">
</div>
<div>
<h1>Group Selector Applied</h1>
<h2>Group Selector Applied</h2>
<div>
<p>This paragraph is inside a div -> Descendant Selector applied</p>
</div>
</body>
</html>
```

HTML + CSS



Rendered Web Page



Demonstrates how different CSS Selectors (Class, ID, Group, Universal, and Descendant) target elements and control styling efficiently.

2.4 Create a responsive web page using media queries and mobile-first design with flexible units

```
1 <html>
2 <head>
3   <title>Responsive Web Page</title>
4   <style>
5     * {
6       margin: 0;
7       padding: 0;
8       box-sizing: border-box;
9     }
10
11     body {
12       font-family: Arial, sans-serif;
13       line-height: 1.1;
14       padding: 10px;
15       background-color: #e1e1e1;
16     }
17
18     header {
19       background-color: #e8e8e8;
20       color: #000000;
21       padding: 10px 0;
22     }
23
24     nav ul {
25       display: flex;
26       justify-content: center;
27       list-style: none;
28     }
29
30     nav li {
31       margin: 0 10px;
32     }
33
34     nav a {
35       color: #000000;
```

```
16     color: #000000;
17     text-decoration: none;
18     font-size: 1.2em;
19   }
20
21   .hero {
22     text-align: center;
23     padding: 20px 0px;
24     background-color: #000000;
25     color: #ffffff;
26   }
27
28   .hero h1 {
29     font-size: 2.5em;
30     margin-bottom: 10px;
31   }
32
33   .hero p {
34     font-size: 1.2em;
35   }
36
37   .content {
38     display: flex;
39     justify-content: space-between;
40     gap: 10px;
41     flex-wrap: wrap;
42     margin-top: 20px;
43   }
44
45   .content article {
46     background-color: #ffffff;
47     padding: 1.5em;
48     flex-basis: 48%;
49     border-radius: 8px;
```

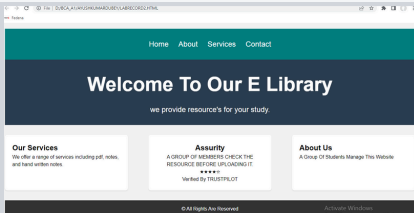
```
1 <html>
2 <head>
3   <title>Responsive Web Page</title>
4   <style>
5     * {
6       margin: 0;
7       padding: 0;
8       box-sizing: border-box;
9     }
10
11     body {
12       font-family: Arial, sans-serif;
13       line-height: 1.1;
14       padding: 10px;
15       background-color: #e1e1e1;
16     }
17
18     header {
19       background-color: #e8e8e8;
20       color: #000000;
21       padding: 10px 0;
22     }
23
24     nav ul {
25       display: flex;
26       justify-content: center;
27       list-style: none;
28     }
29
30     nav li {
31       margin: 0 10px;
32     }
33
34     nav a {
35       color: #000000;
```

```
116     font-size: 1.2em;
117   }
118
119   .hero {
120     text-align: center;
121     padding: 20px 0px;
122     background-color: #000000;
123     color: #ffffff;
124   }
125
126   .hero h1 {
127     font-size: 2.5em;
128     margin-bottom: 10px;
129   }
130
131   .hero p {
132     font-size: 1.2em;
133   }
134
135   .content {
136     display: flex;
137     justify-content: space-between;
138     gap: 10px;
139     flex-wrap: wrap;
140     margin-top: 20px;
141   }
142
143   .content article {
144     background-color: #ffffff;
145     padding: 1.5em;
146     flex-basis: 48%;
147     border-radius: 8px;
148   }
149
150   </style>
151 </head>
152 <body>
153
154   <header>
155     <div>
156       <div>
157         <div href="#">Home</div>
158         <div href="#">About</div>
159         <div href="#">Services</div>
160         <div href="#">Contact</div>
161       </div>
162     </div>
163   </header>
164
165   <main>
166     <section class="hero">
167       <h1>Welcome To Our E Library</h1>
168       <p>We provide resources for your study.</p>
```

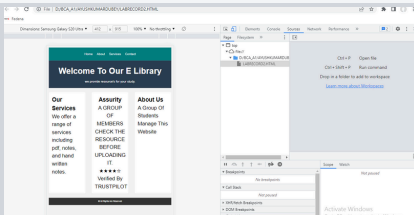
Demonstrates a responsive web page built using media queries and mobile-first design with flexible units.

2.4 Create a responsive web page using media queries and mobile-first design with flexible units

Desktop View (Responsive Layout)



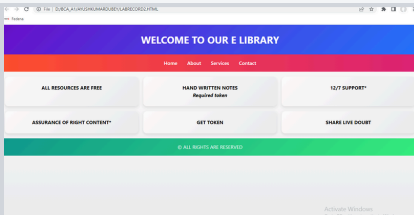
Mobile View (Media Query Applied)



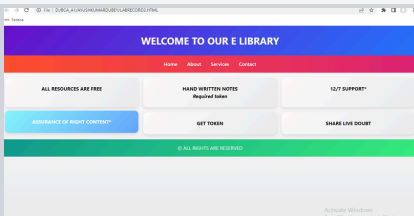
Demonstrates a responsive web page built using media queries and mobile-first design with flexible units.

2.5 Use div and span elements for layout and apply styling with CSS

Desktop View



Hover Effect (Color Change Applied)



Demonstrates layout structuring using div and span elements with applied CSS styling, including hover-based color transitions."