

6. Apply Inline, Internal, and External CSS styles to HTML elements.

The image shows three separate Microsoft Edge browser windows side-by-side, each displaying a different part of an HTML file named "Practical_6.html".

Top Window: This window shows the head section of the HTML file. It includes the DOCTYPE declaration, meta tags for charset and viewport, a title, and sections for linking external and internal CSS. It also contains an internal CSS style block for h2 elements and a class definition for ".internal-box".

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Inline, Internal, and External CSS Example</title>
    <!-- Linking External CSS -->
    <link rel="stylesheet" href="Practical_6.css">
    <!-- Internal CSS -->
    <style>
        /* Internal CSS */
        h2 {
            color: #27ae60;
            text-decoration: underline;
        }
        .internal-box {
            border: 2px solid #27ae60;
            padding: 10px;
            background-color: #eafaf1;
            border-radius: 10px;
            margin: 10px 0;
        }
    </style>
</head>
<body>
```

Middle Window: This window shows the body section of the HTML file, starting with a "student-info" div. It contains student information (Name: Kunal Kumar, Class: B.Tech - 1st Year, Roll No: 43, Subject: Web Design (HTML & CSS), Topic: Apply Inline, Internal, and External CSS Styles to HTML Elements).

```
<div class="student-info">
    <strong>Name:</strong> Kunal Kumar
    <strong>Class:</strong> B.Tech - 1st Year
    <strong>Roll No:</strong> 43
    <strong>Subject:</strong> Web Design (HTML & CSS)
    <strong>Topic:</strong> Apply Inline, Internal, and External CSS Styles to HTML Elements
</div>
```

Bottom Window: This window shows the remainder of the body section, including a heading example, internal CSS examples for h2 and p tags, inline CSS examples for p tags, and external CSS examples.

```
<!-- Heading styled with External CSS -->
<h1>Welcome to CSS Styling Example</h1>
<!-- Internal CSS Example -->
<h2>1. Internal CSS Example</h2>
<div class="internal-box">
    <p>This box and text are styled using <b>Internal CSS</b> defined inside the <style> tag within the HTML file.</p>
</div>
<!-- Inline CSS Example -->
<h2>2. Inline CSS Example</h2>
<p style="color: #c0392b; font-size: 18px; background-color: #f9ebea; padding: 10px; border-radius: 8px;">
    This paragraph is styled using <b>Inline CSS</b>. The style attribute is written directly inside the HTML tag.
</p>
<!-- External CSS Example -->
<h2>3. External CSS Example</h2>
<p>This text and page background are styled with <b>External CSS</b> (from style.css file).</p>
</body>
```

The screenshot shows a code editor interface with several files listed in the Explorer panel on the left:

- EXPLORER-B.TECH_G** (selected)
- B.Tech_G (Kunal(RU-25-10725))
- photo.jpg
- practical_1.html
- Practical_2.html
- Practical_3.html
- Practical_4.html
- Practical_5.html
- Practical_6.css** (selected)
- Practical_6.html
- Practical_7.css
- Practical_7.html

The **Practical_6.css** file contains the following CSS code:

```

1  /* style.css - External CSS */
2  body {
3      background-color: #f4f7fa;
4      font-family: Arial, sans-serif;
5      margin: 20px;
6  }
7
8  h1 {
9      color: #2e86de;
10     text-align: center;
11 }
12
13 p {
14     color: #333;
15     line-height: 1.6;
16 }
17
18 /* Student info section */
19 .student-info {
20     background-color: #dfe6e9;
21     border-left: 5px solid #2e86de;
22     padding: 15px;
23     margin-bottom: 25px;
24     border-radius: 8px;
25     width: fit-content;
26 }
27
28 .student-info h3 {
29     margin: 0;
30     color: #2c3e50;
31 }
32
33 .student-info p {
34     margin: 3px 0;
35     color: #555;
36     font-size: 15px;
37 }
38

```

The **Practical_6.html** file contains the following HTML and CSS:

```

<!DOCTYPE html>
<html>
<head>
    <title>Welcome to CSS Styling Example</title>
    <link href="style.css" type="text/css" rel="stylesheet"/>
</head>
<body>
    <div>
        <h3>Student Information</h3>
        <p>Name: Kunal Kumar</p>
        <p>Class: B.Tech - 1st Year</p>
        <p>Roll No: 43</p>
        <p>Subject: Web Design (HTML & CSS)</p>
        <p>Topic: Apply Inline, Internal, and External CSS Styles to HTML Elements</p>
    </div>
</body>
</html>

```

The browser preview at the bottom shows the following content:

Student Information

Name: Kunal Kumar
Class: B.Tech - 1st Year
Roll No: 43
Subject: Web Design (HTML & CSS)
Topic: Apply Inline, Internal, and External CSS Styles to HTML Elements

Welcome to CSS Styling Example

1. Internal CSS Example

This box and text are styled using **Internal CSS** defined inside the `<style>` tag within the HTML file.

2. Inline CSS Example

This paragraph is styled using **Inline CSS**. The style attribute is written directly inside the HTML tag.

3. External CSS Example

This text and page background are styled with **External CSS** (from `style.css` file).

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

The screenshot shows a code editor interface with two tabs: 'Practical_7.html' and '# Practical_7.css'. The left sidebar shows a file tree for 'B.Tech_G \ Kunal(RU-25-10725)' containing files like photo.jpg, practical_1.html, Practical_2.html, Practical_3.html, Practical_4.html, Practical_5.html, Practical_6.css, Practical_6.html, Practical_7.css, and Practical_7.html. The right pane displays the code for Practical_7.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Advanced CSS Styling Example</title>
    <link rel="stylesheet" href="Practical_7.css">
</head>
<body>
    <!-- Student Info Section -->
    <div class="student-info">
        <h3>Student Information</h3>
        <p><strong>Name:</strong> Kunal Kumar</p>
        <p><strong>Class:</strong> B.Tech - 1st Year</p>
        <p><strong>Roll No:</strong> 43</p>
        <p><strong>Subject:</strong> Web Design (HTML & CSS)</p>
        <p><strong>Topic:</strong> Style a Web Page Using Advanced CSS</p>
    </div>
    <!-- Header Section -->
    <header>
        <h1>Welcome to My Styled Web Page</h1>
        <p>Using Box Model, Backgrounds, Borders, Margins, and Padding</p>
    </header>
    <!-- Main Content Section -->
    <section class="main-content">
        <h2>About This Page</h2>
        <p>This webpage demonstrates the use of <b>advanced CSS properties:</b> including the box model, background image, borders, margins, and padding. Each section is styled using external CSS to maintain a clean and modern layout.</p>
    </section>
</body>
```

At the bottom, status bar indicators show: Ln 7, Col 49, Spaces 2, UTF-8, CRLF, HTML, Port: 5500, Prettier.

The screenshot shows a code editor interface with two tabs: 'Practical_7.html' and '# Practical_7.css'. The left sidebar shows a file tree for 'B.Tech_G \ Kunal(RU-25-10725)' containing files like photo.jpg, practical_1.html, Practical_2.html, Practical_3.html, Practical_4.html, Practical_5.html, Practical_6.css, Practical_6.html, Practical_7.css, and Practical_7.html. The right pane displays the code for Practical_7.html:

```
    <!-- Box Model Demonstration -->
    <div class="box">
        <h3>1. Box Model Example</h3>
        <p>The box model includes content, padding, border, and margin. Here, the blue box has 20px padding, 3px solid border, and 20px margin around it.</p>
    </div>

    <div class="box">
        <h3>2. Background Image Example</h3>
        <p>The page background uses a subtle image pattern combined with a solid color to enhance visual appeal.</p>
    </div>

    <div class="box">
        <h3>3. Borders, Margins, and Padding</h3>
        <p>This box demonstrates rounded borders, spacing between sections (margins), and inner spacing (padding) that make content more readable and organized.</p>
    </div>
</section>
<!-- Footer Section -->
<footer>
    <p>© 2025 Kunal Kumar | Web Design Project</p>
</footer>
</body>
</html>
```

At the bottom, status bar indicators show: Ln 7, Col 49, Spaces 2, UTF-8, CRLF, HTML, Port: 5500, Prettier.

File Edit Selection View Go Run ...

EXPLORER: B.TECH_G

B.Tech_G \ Kunal(RU-25-10725)

- photo.jpg
- practical_1.html
- Practical_2.html
- Practical_3.html
- Practical_4.html
- Practical_5.html
- # Practical_6.css
- Practical_6.html
- # Practical_7.css
- Practical_7.html

Practical_7.html # Practical_7.css

```
1 /* style.css - Advanced CSS Example */
2
3 /* Page Body Styling */
4 body {
5   font-family: "Segoe UI", Arial, sans-serif;
6   background-image: url('https://www.transparenttextures.com/patterns/cubes.png');
7   background-color: #f4f7fb;
8   margin: 0;
9   padding: 0;
10 }
11
12 /* Header Section */
13 header {
14   background-color: #2e86de;
15   color: white;
16   text-align: center;
17   padding: 30px 0;
18   border-bottom: 5px solid #1b4f72;
19   box-shadow: 0 3px 10px rgba(0, 0, 0, 0.2);
20 }
21
22 /* Main Content Area */
23 .main-content {
24   width: 80%;
25   margin: 30px auto;
26   background-color: #ffffff;
27   border: 2px solid #2e86de;
28   border-radius: 15px;
29   padding: 25px;
30   box-shadow: 0 4px 20px rgba(0, 0, 0, 0.1);
31 }
32
```

Ln 66, Col 1 Spaces: 2 UTF-8 CRLF { CSS Port: 5500 ✓ Prettier

File Edit Selection View Go Run ...

EXPLORER: B.TECH_G

B.Tech_G \ Kunal(RU-25-10725)

- photo.jpg
- practical_1.html
- Practical_2.html
- Practical_3.html
- Practical_4.html
- Practical_5.html
- # Practical_6.css
- Practical_6.html
- # Practical_7.css
- Practical_7.html

Practical_7.html # Practical_7.css

```
33 /* Demonstrating Box Model */
34 .box {
35   background-color: #d6eaf8;
36   border: 3px solid #3498db;
37   padding: 20px; /* inside spacing */
38   margin: 20px 0; /* space between elements */
39   border-radius: 10px;
40 }
41
42 /* Footer Section */
43 footer {
44   text-align: center;
45   background-color: #1b4f72;
46   color: #f4f7fb;
47   padding: 15px;
48   margin-top: 30px;
49   border-top: 5px solid #2e86de;
50 }
51
52 /* Styling student info */
53 .student-info {
54   background-color: #eaf2f8;
55   border-left: 5px solid #2e86de;
56   padding: 15px;
57   margin: 20px auto;
58   border-radius: 10px;
59   width: 60%;
60 }
61 .student-info p {
62   margin: 5px 0;
63   color: #2c3e50;
64   font-size: 15px;
```

Ln 66, Col 1 Spaces: 2 UTF-8 CRLF { CSS Port: 5500 ✓ Prettier

Student Information

Name: Kunal Kumar
Class: B.Tech - 1st Year
Roll No: 43
Subject: Web Design (HTML & CSS)
Topic: Style a Web Page Using Advanced CSS

Welcome to My Styled Web Page

Using Box Model, Backgrounds, Borders, Margins, and Padding

About This Page

This webpage demonstrates the use of **advanced CSS properties** including the box model, background image, borders, margins, and padding. Each section is styled using external CSS to maintain a clean and modern layout.

1. Box Model Example

The box model includes content, padding, border, and margin. Here, the blue box has 20px padding, 3px solid border, and 20px margin around it.

2. Background Image Example

The page background uses a subtle image pattern combined with a solid color to enhance visual appeal.

3. Borders, Margins, and Padding

This box demonstrates rounded borders, spacing between sections (margins), and inner spacing (padding) that make content more readable and organized.

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

The screenshot shows a code editor interface with two tabs: "Practical_8.html" and "# Practical_8.css".

Practical_8.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>CSS Selectors Demonstration</title>
<link rel="stylesheet" href="Practical_8.css">
</head>
<body>

<div class="student-info">
<h3>Student Information</h3>
<p><strong>Name:</strong> Kunal Kumar</p>
<p><strong>Class:</strong> B.Tech - 1st Year</p>
<p><strong>Roll No:</strong> 43</p>
<p><strong>Subject:</strong> Web Design (HTML & CSS)</p>
<p><strong>Topic:</strong> Demonstrate the Use of Different CSS Selectors</p>
</div>

<h1 id="main-heading">CSS Selectors Example</h1>

<div class="highlight">
<h2>Class Selector (.classname)</h2>
<p>This section is styled using a <b>class selector</b>. Class selectors can be reused for multiple elements.</p>
</div>

<div class="box">
<h2>Descendant Selector (Parent Child)</h2>
<p>This paragraph is inside a <b>div.box</b> and styled using a <b>descendant selector</b> - it affects only paragraphs inside this box.</p>
</div>

<div class="highlight">
<h2>Group Selector (h1, h2, p)</h2>
<p>Using a <b>group selector</b> we can apply the same style to multiple tags together - like h1, h2, and p.</p>
</div>

<div class="box">
<h2>Universal Selector (*)</h2>
<p>The <b>universal selector</b> applies basic styling (font, margin reset) to all elements on the page.</p>
</div>
<footer>
<p>© 2025 Kunal Kumar | Web Design Practical</p>
</footer>
</body>
</html>
```

Practical_8.css:

```
body {
    font-family: Arial, sans-serif;
}

#main-heading {
    color: red;
    text-align: center;
}

.h2 {
    color: green;
}

.p {
    color: blue;
}

.box {
    border: 1px solid black;
    padding: 10px;
}
```

The screenshot shows a code editor interface with two tabs: "Practical_8.html" and "# Practical_8.css".

Practical_8.html:

```
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>CSS Selectors Demonstration</title>
<link rel="stylesheet" href="Practical_8.css">
</head>
<body>

<h1 id="main-heading">CSS Selectors Example</h1>

<div class="highlight">
<h2>Class Selector (.classname)</h2>
<p>This section is styled using a <b>class selector</b>. Class selectors can be reused for multiple elements.</p>
</div>

<div class="box">
<h2>Descendant Selector (Parent Child)</h2>
<p>This paragraph is inside a <b>div.box</b> and styled using a <b>descendant selector</b> - it affects only paragraphs inside this box.</p>
</div>

<div class="highlight">
<h2>Group Selector (h1, h2, p)</h2>
<p>Using a <b>group selector</b> we can apply the same style to multiple tags together - like h1, h2, and p.</p>
</div>

<div class="box">
<h2>Universal Selector (*)</h2>
<p>The <b>universal selector</b> applies basic styling (font, margin reset) to all elements on the page.</p>
</div>
<footer>
<p>© 2025 Kunal Kumar | Web Design Practical</p>
</footer>
</body>
</html>
```

Practical_8.css:

```
body {
    font-family: Arial, sans-serif;
}

#main-heading {
    color: red;
    text-align: center;
}

.h2 {
    color: green;
}

.p {
    color: blue;
}

.box {
    border: 1px solid black;
    padding: 10px;
}
```

File Edit Selection View Go Run ...

EXPLORER: B.TECH_G

B.Tech_G > Kunal(RU-25-10725) > # Practical_8.css > footer

```
1 /* 1 Universal Selector - applies to all elements */
2 *
3 /* 2 Group Selector - styles multiple elements together */
4 h1, h2, p {
5   color: #2c3e50;
6 }
7
8
9
10
11 /* 3 Class Selector - applied using .classname */
12 .highlight {
13   background-color: #f9e79f;
14   border-left: 5px solid #f1c40f;
15   padding: 10px;
16   border-radius: 8px;
17   margin: 10px 0;
18 }
19
20
21
22
23
24 /* 4 ID Selector - applied to unique elements using #idname */
25 #main-heading {
26   color: #2e86de;
27   text-align: center;
28   text-transform: uppercase;
29   margin: 20px 0;
30   border-bottom: 3px solid #2e86de;
31   padding-bottom: 10px;
32 }
```

Ln 59, Col 29 Spaces: 4 UTF-8 CRLF { CSS } Port: 5500 ✓ Prettier

File Edit Selection View Go Run ...

EXPLORER: B.TECH_G

B.Tech_G > Kunal(RU-25-10725) > # Practical_8.css > footer

```
34
35 /* 5 Descendant Selector - targets elements inside a specific parent */
36 div.box p {
37   color: #34495e;
38   background-color: #d6eaf8;
39   padding: 10px;
40   border-radius: 5px;
41 }
42
43 /* Additional styling for structure */
44 body {
45   background-color: #f4f7fb;
46   margin: 20px;
47 }
48
49 .box {
50   border: 2px solid #5dade2;
51   padding: 15px;
52   border-radius: 10px;
53   margin: 20px 0;
54   background-color: #ffffff;
55 }
56
57 footer {
58   text-align: center;
59   background-color: #e7ebec;
60   color: #f4f7fb;
61   padding: 10px;
62   margin-top: 30px;
63   border-top: 4px solid #2e86de;
64 }
```

Ln 59, Col 29 Spaces: 4 UTF-8 CRLF { CSS } Port: 5500 ✓ Prettier

The screenshot shows the Visual Studio Code interface. The left sidebar displays a file tree for 'B.Tech_G' containing various HTML and CSS files. The right pane shows the content of 'Practical_8.css'. The code defines a class '.student-info' for a 'Student Information Card' with a background color of #eaf2f8, a border-left of 5px solid #2e86de, padding of 15px, a border-radius of 10px, a width of 60%, and margins of 10px auto 25px auto. It also includes a nested selector '.student-info p' with a color of #2c3e50 and a margin of 4px 0.

```
/* Student Information Card */
.student-info {
    background-color: #eaf2f8;
    border-left: 5px solid #2e86de;
    padding: 15px;
    border-radius: 10px;
    width: 60%;
    margin: 10px auto 25px auto;
}

.student-info p {
    color: #2c3e50;
    margin: 4px 0;
}
```

The screenshot shows a browser window titled 'CSS Selectors Demonstration' at the URL '127.0.0.1:5500/B.Tech_G/Kunal(RU-25-10725)/Practical_8.html'. The page displays a 'Student Information' card with the following details: Name: Kunal Kumar, Class: B.Tech - 1st Year, Roll No: 43, Subject: Web Design (HTML & CSS), and Topic: Demonstrate the Use of Different CSS Selectors. The card has a blue border and rounded corners. Below the card, the heading 'CSS SELECTORS EXAMPLE' is displayed. Three sections are shown: 'Class Selector (.classname)', 'Descendant Selector (Parent Child)', and 'Group Selector (h1, h2, p)'. Each section contains a brief description and a yellow background.

Student Information

Name: Kunal Kumar
Class: B.Tech - 1st Year
Roll No: 43
Subject: Web Design (HTML & CSS)
Topic: Demonstrate the Use of Different CSS Selectors

CSS SELECTORS EXAMPLE

Class Selector (.classname)
This section is styled using a **class selector**. Class selectors can be reused for multiple elements.

Descendant Selector (Parent Child)
This paragraph is inside a **div.box** and styled using a **descendant selector** — it affects only paragraphs inside this box.

Group Selector (h1, h2, p)
Using a **group selector** we can apply the same style to multiple tags together — like h1, h2, and p.

CSS Selectors Demonstration

127.0.0.1:5500/B.Tech_G/Kunal(RU-25-10725)/Practical_8.html

CSS SELECTORS EXAMPLE

Class Selector (.classname)

This section is styled using a **class selector**. Class selectors can be reused for multiple elements.

Descendant Selector (Parent Child)

This paragraph is inside a **div.box** and styled using a **descendant selector** — it affects only paragraphs inside this box.

Group Selector (h1, h2, p)

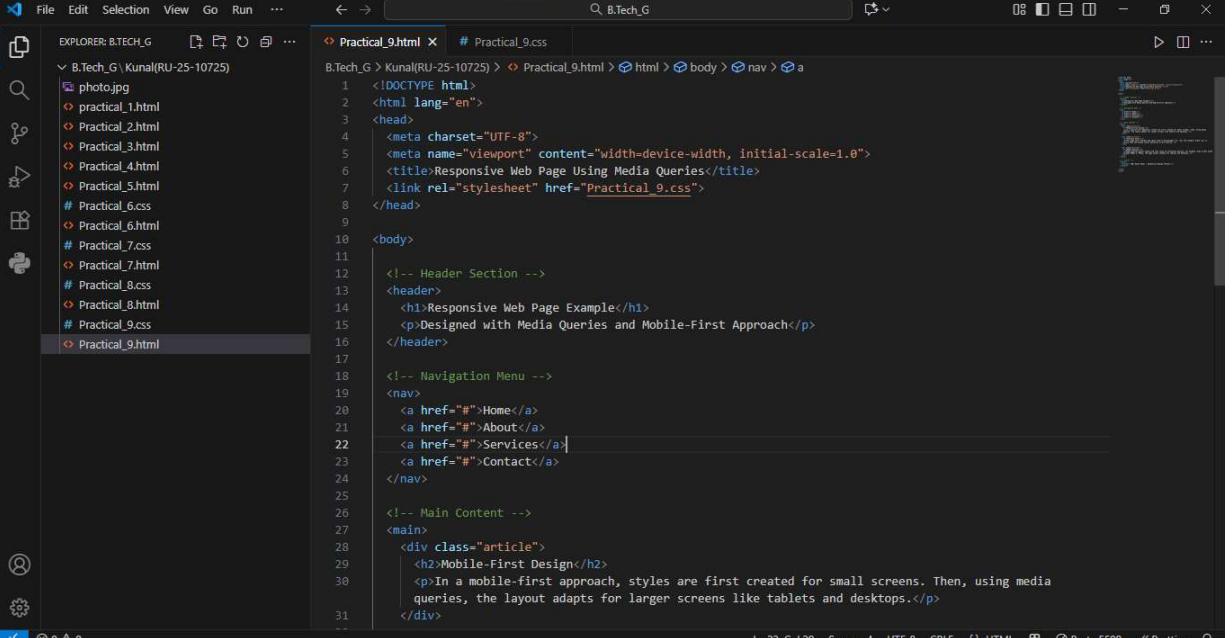
Using a **group selector** we can apply the same style to multiple tags together — like h1, h2, and p.

Universal Selector (*)

The **universal selector** applies basic styling (font, margin reset) to all elements on the page.

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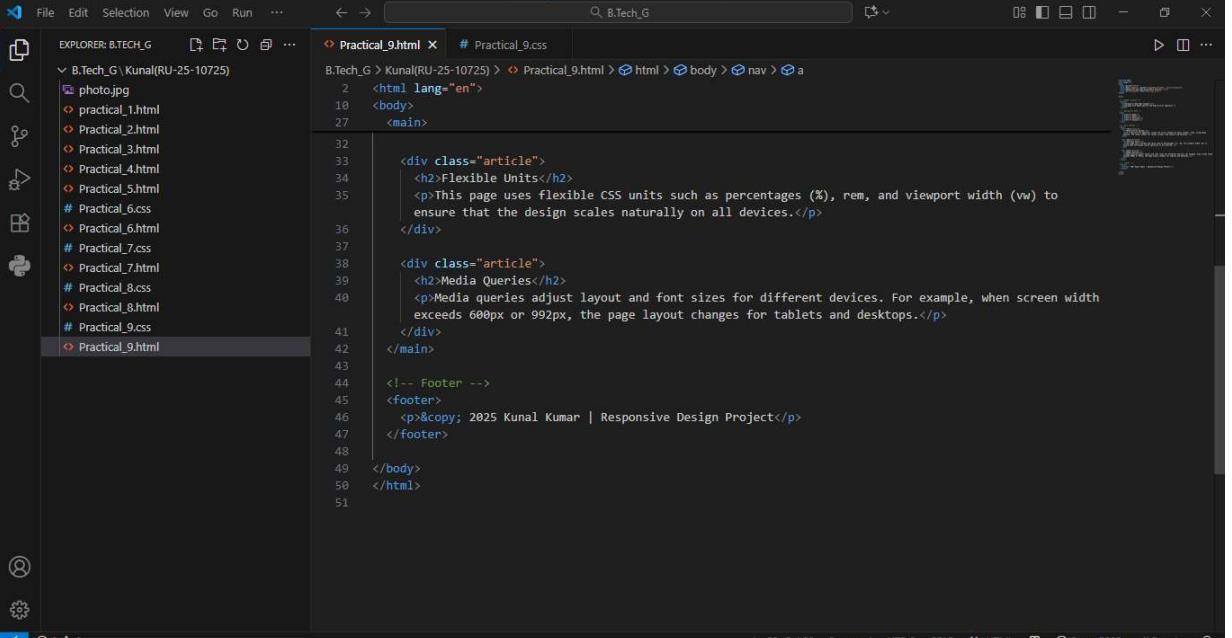
9. Create a responsive web page using media queries and mobile-first design with flexible units



The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a folder named "B.Tech_G" containing files like photo.jpg, practical_1.html, practical_2.html, practical_3.html, practical_4.html, practical_5.html, #Practical_6.css, #Practical_6.html, #Practical_7.css, Practical_7.html, #Practical_8.css, Practical_8.html, #Practical_9.css, and Practical_9.html.
- Editor:** The main editor area displays the content of "Practical_9.html".

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Responsive Web Page Using Media Queries</title>
<link rel="stylesheet" href="Practical_9.css">
</head>
<body>
<!-- Header Section -->
<header>
<h1>Responsive Web Page Example</h1>
<p>Designed with Media Queries and Mobile-First Approach</p>
</header>
<!-- Navigation Menu -->
<nav>
<a href="#">Home</a>
<a href="#">About</a>
<a href="#">Services</a>
<a href="#">Contact</a>
</nav>
<!-- Main Content -->
<main>
<div class="article">
<h2>Mobile-First Design</h2>
<p>In a mobile-first approach, styles are first created for small screens. Then, using media queries, the layout adapts for larger screens like tablets and desktops.</p>
</div>
</main>
</body>
</html>
```
- Status Bar:** Shows "Ln 22, Col 29" and "Port: 5500".



The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Same as the previous screenshot.
- Editor:** The main editor area displays the content of "Practical_9.html".

```
<!DOCTYPE html>
<html lang="en">
<body>
<main>
<div class="article">
<h2>Flexible Units</h2>
<p>This page uses flexible CSS units such as percentages (%), rem, and viewport width (vw) to ensure that the design scales naturally on all devices.</p>
</div>
<div class="article">
<h2>Media Queries</h2>
<p>Media queries adjust layout and font sizes for different devices. For example, when screen width exceeds 600px or 992px, the page layout changes for tablets and desktops.</p>
</div>
</main>
<!-- Footer -->
<footer>
<p>© 2025 Kunal Kumar | Responsive Design Project</p>
</footer>
</body>
</html>
```
- Status Bar:** Shows "Ln 22, Col 29" and "Port: 5500".

```
/* style.css - Responsive Web Page Using Media Queries and Mobile-First Design */
* {
    box-sizing: border-box;
    margin: 0;
    padding: 0;
    font-family: "Segoe UI", Arial, sans-serif;
}

body {
    background-color: #f8f9fa;
    color: #2c3e5b;
    line-height: 1.6;
    padding: 1rem;
}

/* Header Section */
header {
    background-color: #2e86de;
    color: white;
    text-align: center;
    padding: 1.5rem 0;
    border-radius: 0.5rem;
}

header h1 {
    font-size: 1.5rem;
}

/* Navigation Menu */
nav {
    ...
```

```
nav {
    display: flex;
    flex-direction: column;
    background-color: #d6eaf8;
    margin-top: 1rem;
    border-radius: 0.5rem;
}

nav a {
    text-decoration: none;
    color: #2e86de;
    padding: 0.75rem;
    text-align: center;
    border-bottom: 1px solid #aed6f1;
}

nav a:hover {
    background-color: #aed6f1;
}

/* Main Content */
main {
    margin-top: 1.5rem;
}

.article {
    background-color: white;
    border: 1px solid #dcdcdc;
    border-radius: 0.5rem;
    padding: 1rem;
    margin-bottom: 1rem;
}
```

File Edit Selection View Go Run ... 🔍 B.Tech_G # Practical_9.css

```
65 .article h2 {  
66   color: #1b4f72;  
67   font-size: 1.2rem;  
68   margin-bottom: 0.5rem;  
69 }  
70 /* Footer */  
71 footer {  
72   text-align: center;  
73   background-color: #1b4f72;  
74   color: white;  
75   padding: 1rem;  
77   border-radius: 0.5rem;  
78   margin-top: 1rem;  
79 }  
80 /* Media Query for Tablets (min-width: 600px) */  
81 @media (min-width: 600px) {  
82   header h1 {  
83     font-size: 2rem;  
84   }  
85   nav {  
86     flex-direction: row;  
87     justify-content: center;  
88   }  
89   nav a {  
90     border: none;  
91     border-right: 1px solid #aed6f1;  
92   }  
93 }  
94 /* Media Query for Desktops (min-width: 992px) */  
95 @media (min-width: 992px) {  
96   nav a {  
97     border-right: none;  
98   }  
99   .article {  
100    padding: 1.5rem;  
101  }  
102 }  
103 /* Media Query for Large Screens (min-width: 1200px) */  
104 @media (min-width: 1200px) {  
105   body {  
106     max-width: 1000px;  
107     margin: 0 auto;  
108   }  
109   main {  
110     display: flex;  
111     justify-content: space-between;  
112     gap: 1.5rem;  
113   }  
114   .article {  
115     flex: 1;  
116   }  
117   header h1 {  
118     font-size: 2.5rem;  
119   }  
120   nav a {  
121     padding: 1rem 1.5rem;  
122     font-size: 1.1rem;  
123   }  
124 }  
125 }  
126 }  
127 }  
128 }  
129 }  
130 }  
131 }
```

Ln 132 Col 1 Spaces: 4 UTF-8 CRLF ⚡ CSS 🌐 Port: 5500 ✅ Prettier

File Edit Selection View Go Run ... 🔍 B.Tech_G # Practical_9.css

```
82   @media (min-width: 600px) {  
92     nav a {  
93       border-right: none;  
94     }  
95     .article {  
96       padding: 1.5rem;  
97     }  
98   }  
99   /* Media Query for Desktops (min-width: 992px) */  
100  @media (min-width: 992px) {  
101    body {  
102      max-width: 1000px;  
103      margin: 0 auto;  
104    }  
105    main {  
106      display: flex;  
107      justify-content: space-between;  
108      gap: 1.5rem;  
109    }  
110    .article {  
111      flex: 1;  
112    }  
113    header h1 {  
114      font-size: 2.5rem;  
115    }  
116    nav a {  
117      padding: 1rem 1.5rem;  
118      font-size: 1.1rem;  
119    }  
120  }  
121  /* Media Query for Large Screens (min-width: 1200px) */  
122  @media (min-width: 1200px) {  
123    body {  
124      max-width: 1000px;  
125      margin: 0 auto;  
126    }  
127    main {  
128      display: flex;  
129      justify-content: space-between;  
130      gap: 1.5rem;  
131    }  
132    .article {  
133      flex: 1;  
134    }  
135    header h1 {  
136      font-size: 2.5rem;  
137    }  
138    nav a {  
139      padding: 1rem 1.5rem;  
140      font-size: 1.1rem;  
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Ln 119 Col 13 Spaces: 4 UTF-8 CRLF ⚡ CSS 🌐 Port: 5500 ✅ Prettier

The screenshot shows a web browser window displaying a responsive web page. The title bar reads "Responsive Web Page Using Media Queries" and the address bar shows the URL "127.0.0.1:5500/B.Tech_G/Kunal(RU-25-10725)/Practical_9.html#". The page has a blue header with the title "Responsive Web Page Example" and a subtitle "Designed with Media Queries and Mobile-First Approach". Below the header is a navigation bar with links for Home, About, Services, and Contact. The main content area is divided into three columns:

- Mobile-First Design**: In a mobile-first approach, styles are first created for small screens. Then, using media queries, the layout adapts for larger screens like tablets and desktops.
- Flexible Units**: This page uses flexible CSS units such as percentages (%), rem, and viewport width (vw) to ensure that the design scales naturally on all devices.
- Media Queries**: Media queries adjust layout and font sizes for different devices. For example, when screen width exceeds 600px or 992px, the page layout changes for tablets and desktops.

At the bottom of the page is a dark footer bar with the text "© 2025 Kunal Kumar | Responsive Design Project". On the right side of the browser window, there is a vertical toolbar with icons for File, Paste, and Clipboard.

10. Use div and span elements for layout and apply styling with CSS

The screenshot shows the VS Code interface with two tabs open: 'Practical_10.html' and '# Practical_10.css'. The Explorer sidebar on the left lists files like photo.jpg, practical_1.html, Practical_2.html, etc., and the current file 'Practical_10.html'.

The code editor displays the following HTML structure:

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Using div and span with CSS</title>
<link rel="stylesheet" href="Practical_10.css">
</head>
<body>
<!-- Header Section (div used for layout) -->
<div class="header">
<h1>Web Page Layout using DIV and SPAN</h1>
<p>Demonstration of structure and inline styling with CSS</p>
</div>
<!-- Navigation Menu -->
<div class="navbar">
<div>Home</div>
<div>About</div>
<div>Services</div>
<div>Contact</div>
</div>
<!-- Main Layout Section -->
<div class="main">
<!-- Sidebar -->
<div class="sidebar">
<h2>Sidebar Section</h2>
<p>This sidebar is created using a <span class="highlight">&lt;div&gt;</span> element and styled with borders, padding, and background color.</p>
...
</div>
<!-- Main Content Area -->
<div class="content">
<h2>Main Content Area</h2>
<p>In HTML, <span class="highlight">&lt;div&gt;</span> is a block-level container used to group related content, while <span class="highlight">&lt;span&gt;</span> is an inline element used to style specific words or phrases.</p>
<p>For example, the words highlighted in <span class="highlight">red color</span> are wrapped inside a <span class="highlight">&lt;span&gt;</span></span> tag with a CSS class applied to it.</p>
<p>This layout uses multiple <span class="highlight">&lt;div&gt;</span></span> elements to organize header, navigation, sidebar, main content, and footer – showing how a web page can be structured using CSS.</p>
</div>
<!-- Footer Section -->
<div class="footer">
<p>© 2025 Kunal Kumar | Web Design Project</p>
</div>
</body>
</html>
```

The status bar at the bottom indicates the file is 22 lines long, column 24, with 4 spaces, UTF-8 encoding, CRLF line endings, and port 5500.

This screenshot continues where the previous one left off, showing the rest of the 'Practical_10.html' file and the '# Practical_10.css' file.

The code editor displays the following HTML structure:

```
<!-- Main Content Area -->
<div class="content">
<h2>Main Content Area</h2>
<p>In HTML, <span class="highlight">&lt;div&gt;</span> is a block-level container used to group related content, while <span class="highlight">&lt;span&gt;</span> is an inline element used to style specific words or phrases.</p>
<p>For example, the words highlighted in <span class="highlight">red color</span> are wrapped inside a <span class="highlight">&lt;span&gt;</span></span> tag with a CSS class applied to it.</p>
<p>This layout uses multiple <span class="highlight">&lt;div&gt;</span></span> elements to organize header, navigation, sidebar, main content, and footer – showing how a web page can be structured using CSS.</p>
</div>
<!-- Footer Section -->
<div class="footer">
<p>© 2025 Kunal Kumar | Web Design Project</p>
</div>
</body>
</html>
```

The status bar at the bottom indicates the file is 22 lines long, column 24, with 4 spaces, UTF-8 encoding, CRLF line endings, and port 5500.

File Edit Selection View Go Run ... 🔍 B.Tech_G # Practical_10.css

EXPLORER: B.TECH_G 🔍 ⌂ ⌂ ⌂ ⌂ ⌂ ⌂ ...

B.Tech_G \ Kunal(RU-25-10725)

- photo.jpg
- practical_1.html
- Practical_2.html
- Practical_3.html
- Practical_4.html
- Practical_5.html
- # Practical_6.css
- Practical_6.html
- # Practical_7.css
- Practical_7.html
- # Practical_8.css
- Practical_8.html
- # Practical_9.css
- Practical_9.html
- # Practical_10.css
- Practical_10.html

```
1 /* style.css - Layout Using div and span Elements */
2
3 /* Reset & Global Styling */
4 {
5   box-sizing: border-box;
6   margin: 0;
7   padding: 0;
8   font-family: "Segoe UI", Arial, sans-serif;
9 }
10
11 body {
12   background-color: #f8f9fa;
13   color: #2e3e50;
14   line-height: 1.6;
15   padding: 1rem;
16 }
17
18 /* Header Section */
19 .header {
20   background-color: #2e86de;
21   color: white;
22   text-align: center;
23   padding: 1.5rem 0;
24   border-radius: 8px;
25   margin-bottom: 1.5rem;
26 }
27
28 .header h1 {
29   font-size: 2rem;
30 }
31
32 /* Navigation Bar */
```

Ln 98, Col 1 Spaces: 4 UTF-8 CRLF { CSS 🏛️ Port: 5500 ✓ Prettier

File Edit Selection View Go Run ... 🔍 B.Tech_G # Practical_10.css

EXPLORER: B.TECH_G 🔍 ⌂ ⌂ ⌂ ⌂ ⌂ ⌂ ...

B.Tech_G \ Kunal(RU-25-10725)

- photo.jpg
- practical_1.html
- Practical_2.html
- Practical_3.html
- Practical_4.html
- Practical_5.html
- # Practical_6.css
- Practical_6.html
- # Practical_7.css
- Practical_7.html
- # Practical_8.css
- Practical_8.html
- # Practical_9.css
- Practical_9.html
- # Practical_10.css
- Practical_10.html

```
32 /* Navigation Bar */
33 .navbar {
34   display: flex;
35   justify-content: center;
36   background-color: #d6eaf8;
37   border-radius: 8px;
38   margin-bottom: 1.5rem;
39 }
40
41 .navbar div {
42   padding: 0.75rem 1.5rem;
43   border-right: 1px solid #aed6f1;
44 }
45
46 .navbar div:last-child {
47   border-right: none;
48 }
49
50 .navbar div:hover {
51   background-color: #aed6f1;
52   cursor: pointer;
53 }
54
55 /* Main Layout */
56 .main {
57   display: flex;
58   flex-wrap: wrap;
59   gap: 1.5rem;
60 }
61
62 /* Left and Right Section using divs */
63 .sidebar, .content {
```

Ln 98, Col 1 Spaces: 4 UTF-8 CRLF { CSS 🏛️ Port: 5500 ✓ Prettier

```
/* Left and Right Section using divs */
.sidebar, .content {
    background-color: #ffffff;
    border: 1px solid #dcdcdc;
    border-radius: 10px;
    padding: 1rem;
    flex: 1;
    min-width: 250px;
}

/* Sidebar */
.sidebar {
    flex-basis: 25%;
    background-color: #eef2f8;
}

/* Content */
.content {
    flex-basis: 70%;
}

/* Span styling example inside paragraphs */
.highlight {
    color: #e74c3c;
    font-weight: bold;
}

/* Footer */
.footer {
    background-color: #1b4f72;
    color: white;
    text-align: center;
    padding: 1rem;
    border-radius: 8px;
    margin-top: 2rem;
}
```

Using div and span with CSS

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Web Page Layout using DIV and SPAN

Demonstration of structure and inline styling with CSS

Home About Services Contact

Sidebar Section

This sidebar is created using a `<div>` element and styled with borders, padding, and background color.

Main Content Area

In HTML, `<div>` is a block-level container used to group related content, while `` is an inline element used to style specific words or phrases.

For example, the words highlighted in **red color** are wrapped inside a `` tag with a CSS class applied to it.

This layout uses multiple `<div>` elements to organize header, navigation, sidebar, main content, and footer — showing how a web page can be structured using CSS.

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