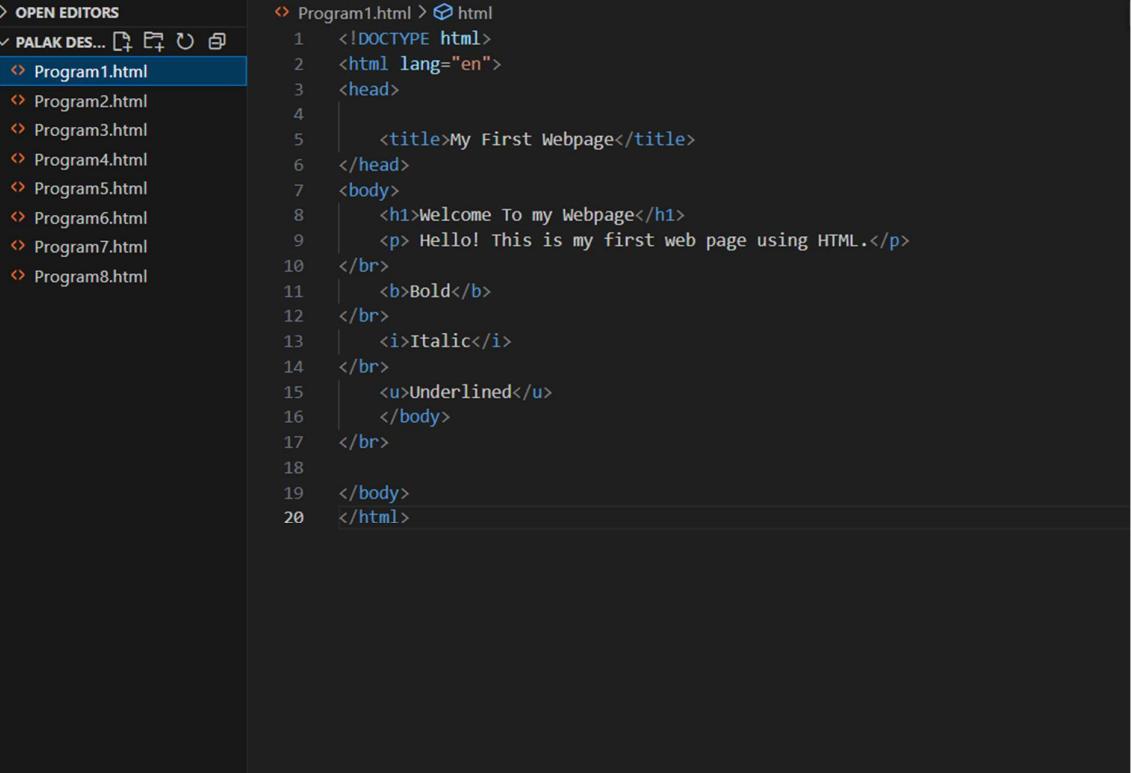


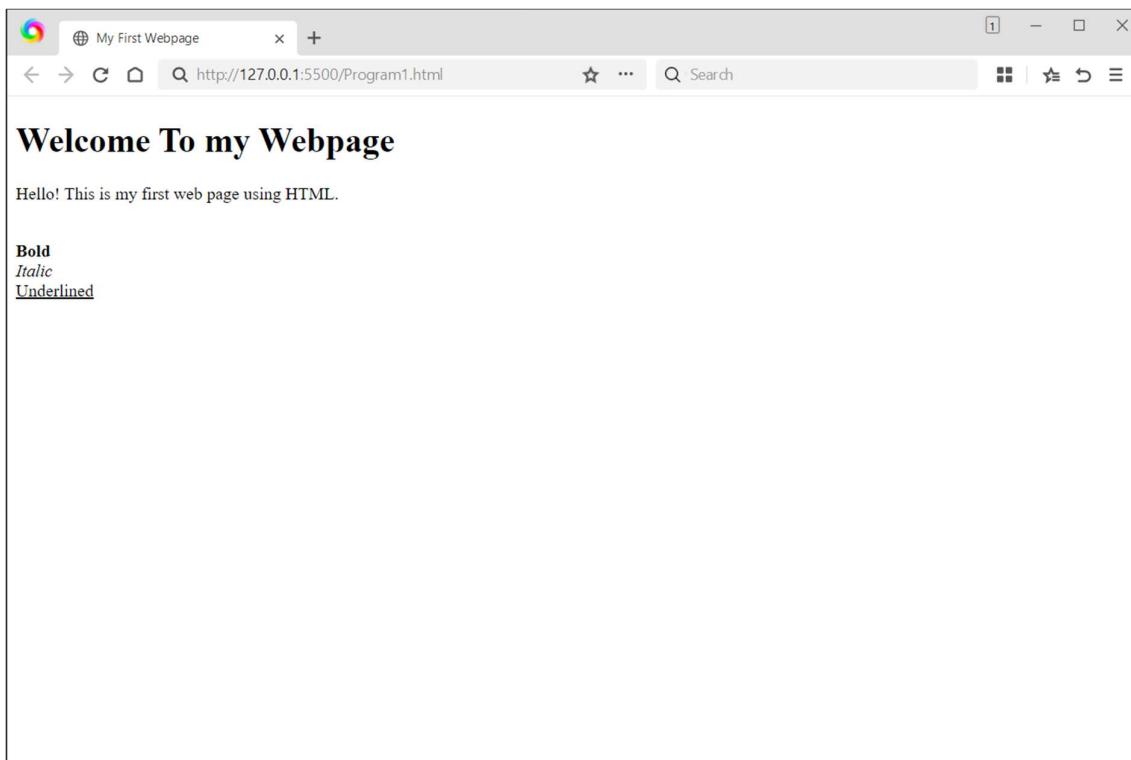
1.Create +C46: C65a basic HTML web page using headings, paragraph and text formatting tags.



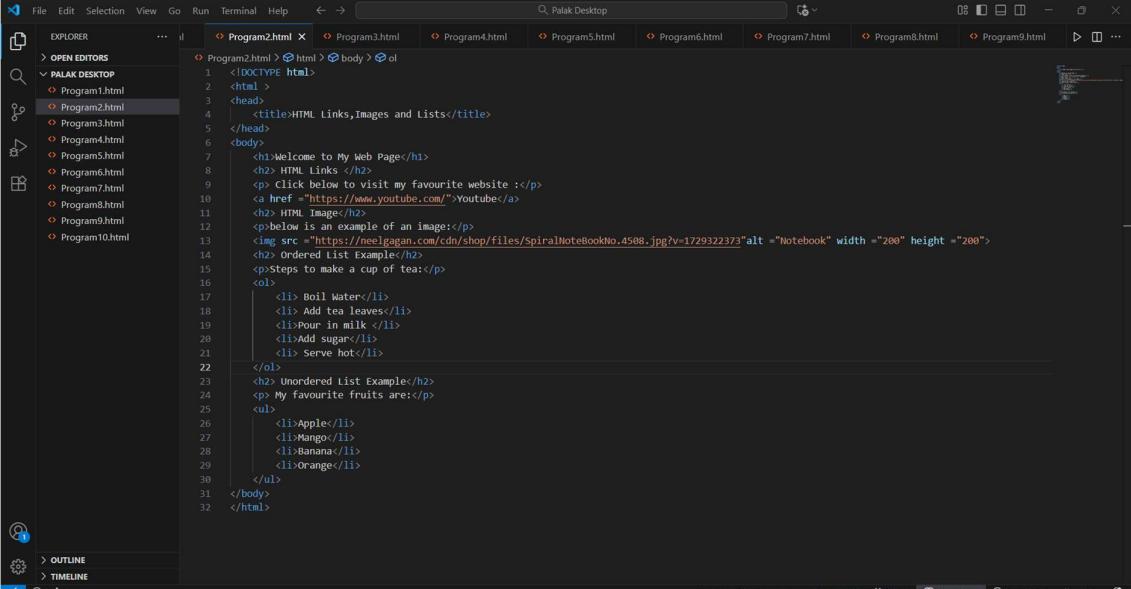
```
> OPEN EDITORS
✓ PALAK DES... 📁 🖨️ ⌂ 🗑️
  ◇ Program1.html
  ◇ Program2.html
  ◇ Program3.html
  ◇ Program4.html
  ◇ Program5.html
  ◇ Program6.html
  ◇ Program7.html
  ◇ Program8.html

◇ Program1.html > ⚒ html
1   <!DOCTYPE html>
2   <html lang="en">
3     <head>
4       <title>My First Webpage</title>
5     </head>
6     <body>
7       <h1>Welcome To my Webpage</h1>
8       <p> Hello! This is my first web page using HTML.</p>
9
10      <br>
11      <b>Bold</b>
12      <br>
13      <i>Italic</i>
14      <br>
15      <u>Underlined</u>
16    </body>
17  <br>
18  </body>
19  </html>
```

OUTPUT



2.Design a webpage demonstrating HTML links, images and lists (ordered, unordered, nested)



```
<!DOCTYPE html>
<html>
<head>
<title>HTML Links,Images and Lists</title>
</head>
<body>
<h1>Welcome to My Web Page</h1>
<h2> HTML Links </h2>
<p> Click below to visit my favourite website :</p>
<a href = "https://www.youtube.com/">Youtube</a>
<h2> HTML Image </h2>
<p>below is an example of an image:</p>
<img src ="https://neelgagan.com/cdn/shop/files/SpiralNoteBookNo.4588.jpg?v=1729322373" alt = "Notebook" width = "200" height = "200">
<h2> Ordered List Example</h2>
<p>Steps to make a cup of tea:</p>
<ol>
<li>Boil Water</li>
<li>Add tea leaves</li>
<li>Pour in milk </li>
<li>Add sugar</li>
<li>Serve hot</li>
</ol>
<h2> Unordered List Example</h2>
<p> My favourite fruits are:</p>
<ul>
<li>Apple</li>
<li>Mango</li>
<li>Banana</li>
<li>Orange</li>
</ul>
</body>
</html>
```

OUTPUT



Welcome to My Web Page

HTML Links

Click below to visit my favourite website :

[Youtube](https://www.youtube.com/)

HTML Image

below is an example of an image:



Ordered List Example

Steps to make a cup of tea:

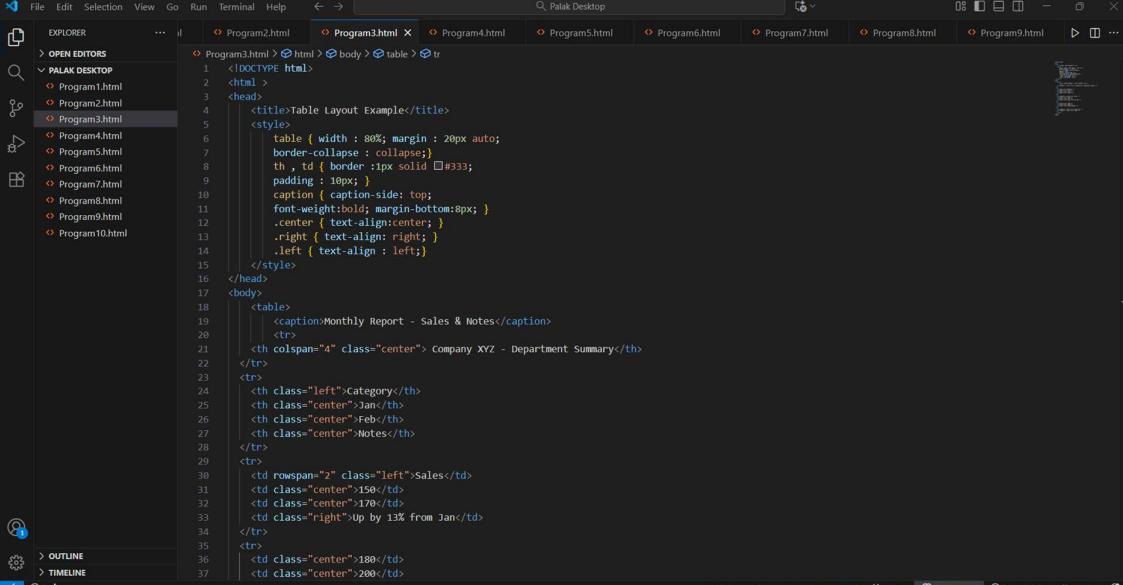
1. Boil Water
2. Add tea leaves
3. Pour in milk
4. Add sugar
5. Serve hot

Unordered List Example

My favourite fruits are:

- Apple
- Mango
- Banana
- Orange

3.Create a table- based layout with merged cells, alignment, and caption using HTML.



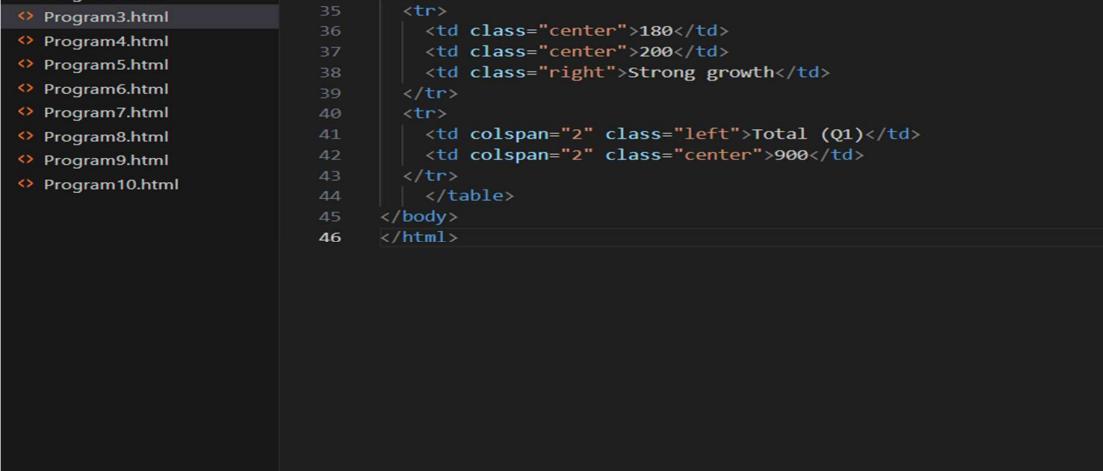
```

<!DOCTYPE html>
<html> <body> <table> <tr>
1   <td colspan="4" style="text-align: center; border-collapse: collapse; border: 1px solid black; padding: 10px; font-weight: bold; margin-bottom: 8px; font-size: 10pt; background-color: #f2f2f2;"><caption>Table Layout Example</caption>
```

The screenshot shows a code editor interface with multiple tabs at the top. The active tab is 'Program3.html'. The code in the editor is as follows:

```

<!DOCTYPE html>
<html> <body> <table> <tr>
1   <td colspan="4" style="text-align: center; border-collapse: collapse; border: 1px solid black; padding: 10px; font-weight: bold; margin-bottom: 8px; font-size: 10pt; background-color: #f2f2f2;"><caption>Table Layout Example</caption>
```



```

<th colspan="4" style="text-align: center; border-collapse: collapse; border: 1px solid black; padding: 10px; font-weight: bold; margin-bottom: 8px; font-size: 10pt; background-color: #f2f2f2;">Company XYZ - Department Summary</th>
<tr>
2   <th class="left">Category</th>
3   <th class="center">Jan</th>
4   <th class="center">Feb</th>
5   <th class="center">Notes</th>
6   </tr>
7   <tr>
8     <td rowspan="2" class="left">Sales</td>
9     <td class="center">150</td>
10    <td class="center">170</td>
11    <td class="right">Up by 13% from Jan</td>
12  </tr>
13  <tr>
14    <td class="center">180</td>
15    <td class="center">200</td>
16  </tr>
17  <tr>
18    <td colspan="2" class="left" style="text-align: right; vertical-align: bottom; border-bottom: 1px solid black; padding-right: 10px;">Total (Q1)</td>
19    <td colspan="2" class="center" style="text-align: left; vertical-align: bottom; border-bottom: 1px solid black; padding-left: 10px;">900</td>
20  </tr>
21  <tr>
22    <td colspan="4" style="text-align: center; border-top: 1px solid black; border-bottom: 1px solid black; border-collapse: collapse; border: none; padding: 10px; font-size: 10pt; background-color: #f2f2f2;">Strong growth</td>
23  </tr>
24  </table>
25  </body>
26  </html>

```

OUTPUT

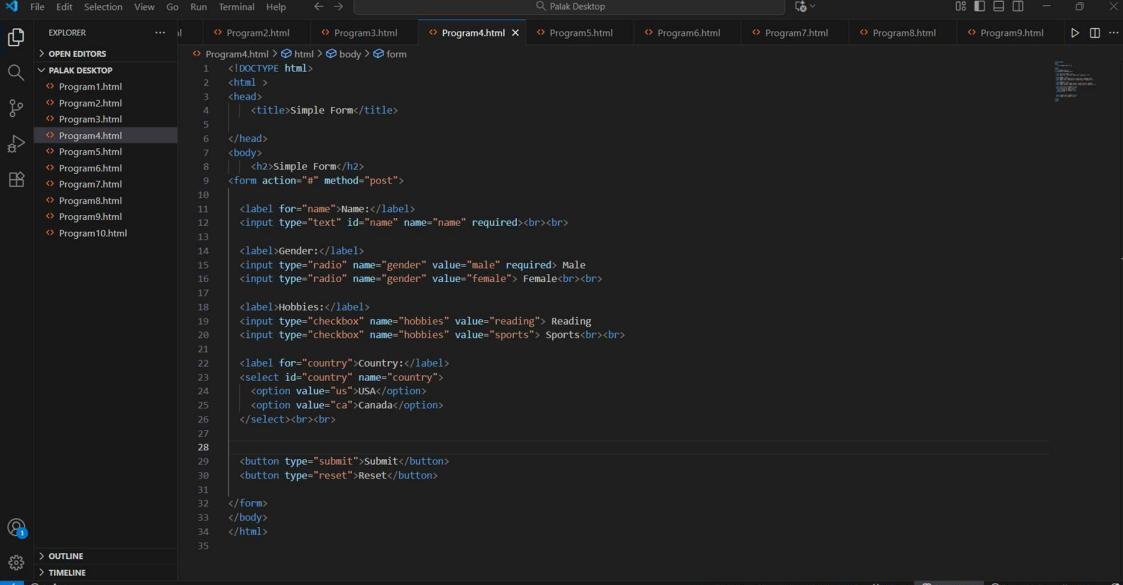


The screenshot shows a web browser window with the URL <http://127.0.0.1:5500/Program3.html>. The page title is 'Table Layout Example' and the main content is:

Monthly Report - Sales & Notes

Company XYZ - Department Summary			
Category	Jan	Feb	Notes
Sales	150	170	Up by 13% from Jan
	180	200	Strong growth
Total (Q1)		900	

4. Design a webpage with an HTML form having text input, radio buttons, checkboxes, select menus, and submit/reset buttons.



```
<!DOCTYPE html>
<html> <body> <form>
<head>
    <title>Simple Form</title>
</head>
<body>
    <h2>Simple Form</h2>
    <form action="#" method="post">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required><br><br>

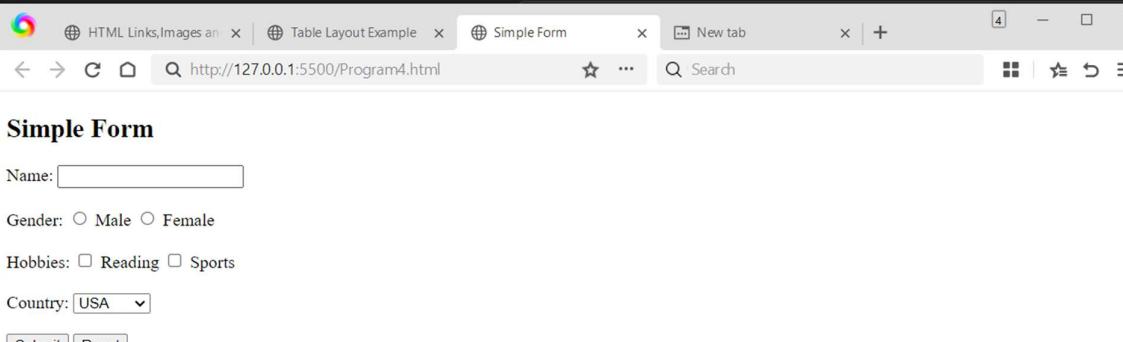
        <label>Gender:</label>
        <input type="radio" name="gender" value="male" required> Male
        <input type="radio" name="gender" value="female"> Female<br><br>

        <label>Hobbies:</label>
        <input type="checkbox" name="hobbies" value="reading"> Reading
        <input type="checkbox" name="hobbies" value="sports"> Sports<br><br>

        <label for="country">Country:</label>
        <select id="country" name="country">
            <option value="us">USA</option>
            <option value="ca">Canada</option>
        </select><br><br>

        <button type="submit">Submit</button>
        <button type="reset">Reset</button>
    </form>
</body>
</html>
```

OUTPUT



Simple Form

Name:

Gender: Male Female

Hobbies: Reading Sports

Country:

5. Use semantic elements (<article>, <section>, <nav>, <aside>, <footer>) to build a structured web page.

The screenshot shows a code editor interface with a dark theme. On the left, there's a sidebar with sections for 'OPEN EDITORS' (PALAK DESKTOP), 'OUTLINE', and 'TIMELINE'. The main area displays the following HTML and CSS code:

```
<!DOCTYPE html>
<html>
<head>
<title>Semantic Web Page</title>
<style>
body {
    font-family: Arial, sans-serif;
    margin: 0;
}
header, nav, section, article, aside, footer {
    padding: 15px;
    margin: 10px;
    border: 1px solid #ccc;
}
nav {
    background-color: #f0f0f0;
}
section {
    background-color: #fafafa;
}
aside {
    background-color: #f9f9f9;
}
footer {
    background-color: #eee;
    text-align: center;
}
</style>
</head>
<body>
<header>
    <h1>My Semantic Web Page</h1>
</header>
<nav>
```

The screenshot shows a code editor interface with a dark theme. On the left, there's a sidebar with sections for 'OPEN EDITORS' (Program3.html, Program4.html, Program5.html, Program6.html, Program7.html, Program8.html, Program9.html, Program10.html), 'OUTLINE', and 'TIMELINE'. The main area displays the following HTML code:

```
<nav>
    <a href="#">Home</a> |
    <a href="#">About</a> |
    <a href="#">Contact</a>
</nav>
● 42
<main>
    <section>
        <h2>Main Content Section</h2>
        <article>
            <h3>Article 1</h3>
            <p>This is the first article. It contains useful content.</p>
        </article>
        <article>
            <h3>Article 2</h3>
            <p>This is the second article with more information.</p>
        </article>
    </section>
    <aside>
        <h3>Sidebar</h3>
        <p>This is some additional info or links in the sidebar.</p>
    </aside>
</main>
<footer>
    <p>© 2025 My Website. All rights reserved.</p>
</footer>
</body>
</html>
```

OUTPUT

The screenshot shows a web browser window with the URL <http://127.0.0.1:5500/Program5.html>. The page title is "My Semantic Web Page". Below the title is a navigation bar with links to "Home", "About", and "Contact". The main content section is titled "Main Content Section" and contains two articles: "Article 1" and "Article 2". "Article 1" has the text "This is the first article. It contains useful content.". "Article 2" has the text "This is the second article with more information.". To the right of the main content is a sidebar with the title "Sidebar" and the text "This is some additional info or links in the sidebar.". At the bottom of the page is a footer with the text "© 2025 My Website. All rights reserved."

My Semantic Web Page

[Home](#) | [About](#) | [Contact](#)

Main Content Section

Article 1

This is the first article. It contains useful content.

Article 2

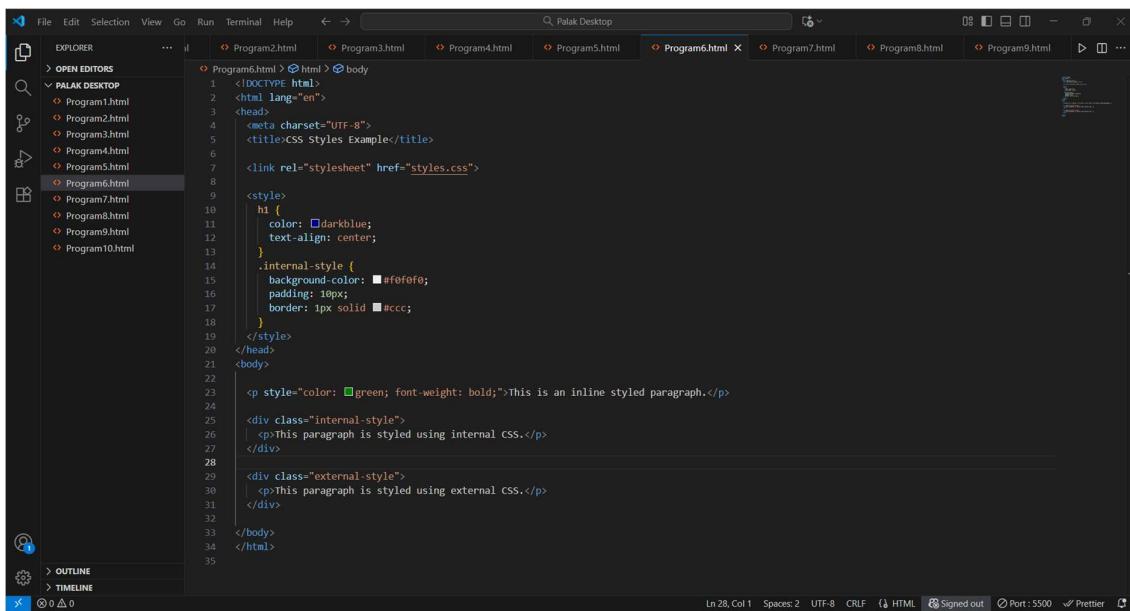
This is the second article with more information.

Sidebar

This is some additional info or links in the sidebar.

© 2025 My Website. All rights reserved.

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

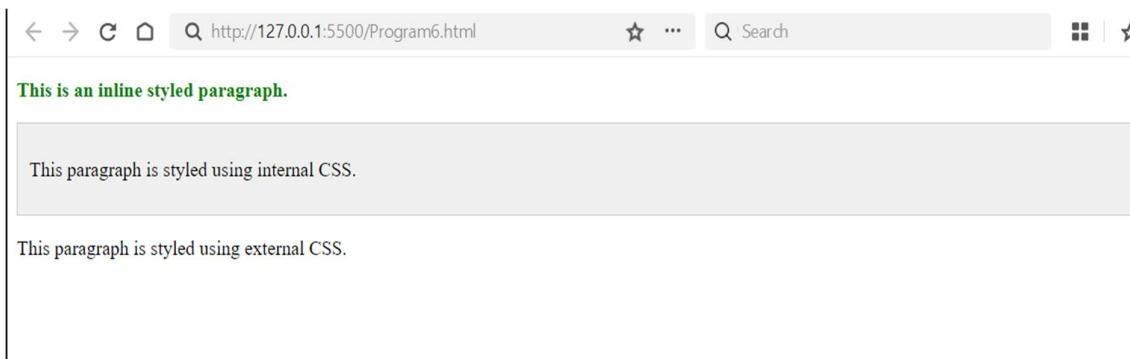


The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Shows a tree view of files in the "PALAK DESKTOP" folder, including Program1.html through Program10.html, with "Program6.html" currently selected.
- Code Editor:** Displays the content of Program6.html. The code includes:
 - An external stylesheet link: `<link rel="stylesheet" href="styles.css">`
 - An internal style block:

```
h1 {  
    color: darkblue;  
    text-align: center;  
}  
.internal-style {  
    background-color: #f0f0f0;  
    padding: 10px;  
    border: 1px solid #ccc;  
}
```
 - Inline styling for a paragraph:`<p style="color: green; font-weight: bold;">This is an inline styled paragraph.</p>`
 - A div with internal CSS:`<div class="internal-style">
| <p>This paragraph is styled using internal CSS.</p>
</div>`
 - A div with external CSS:`<div class="external-style">
| <p>This paragraph is styled using external CSS.</p>
</div>`
- Status Bar:** Shows line 28, column 1, spaces: 2, encoding: UTF-8, CRLF, file type: HTML, signed out, port: 5500, and Prettier status.

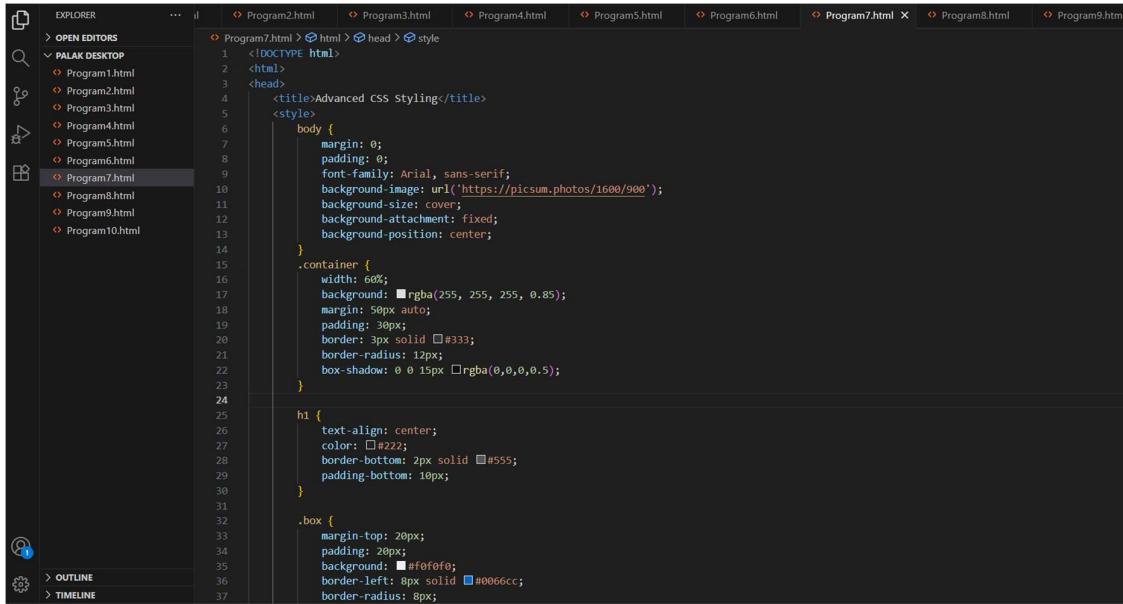
OUTPUT



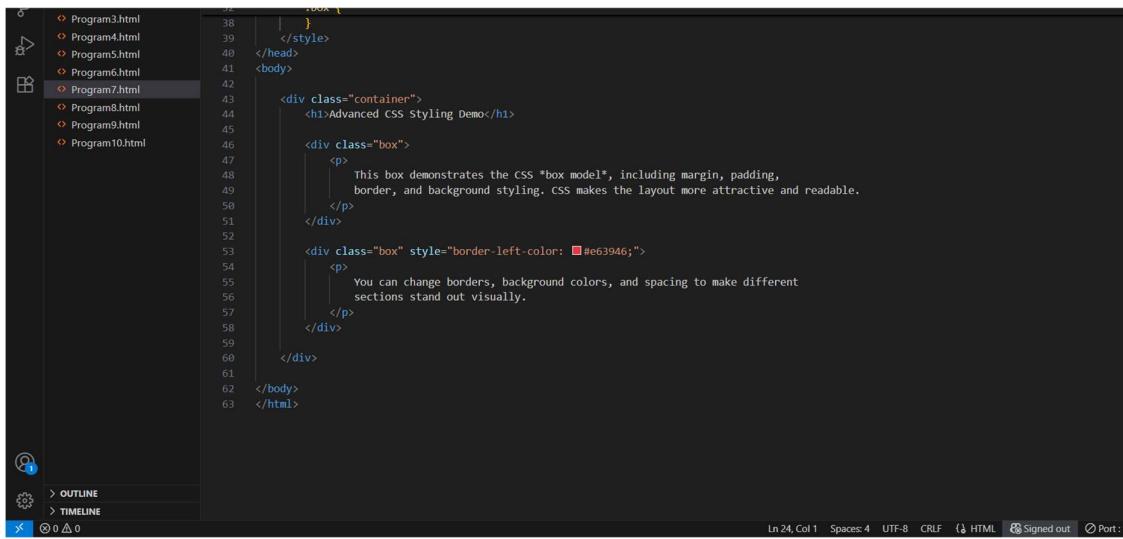
The browser window displays the rendered HTML from Program6.html. The output is as follows:

- Inline styling:** A green, bold paragraph: "This is an inline styled paragraph."
- Internal CSS:** A light gray box containing a black-bordered paragraph: "This paragraph is styled using internal CSS."
- External CSS:** A plain black paragraph: "This paragraph is styled using external CSS."

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



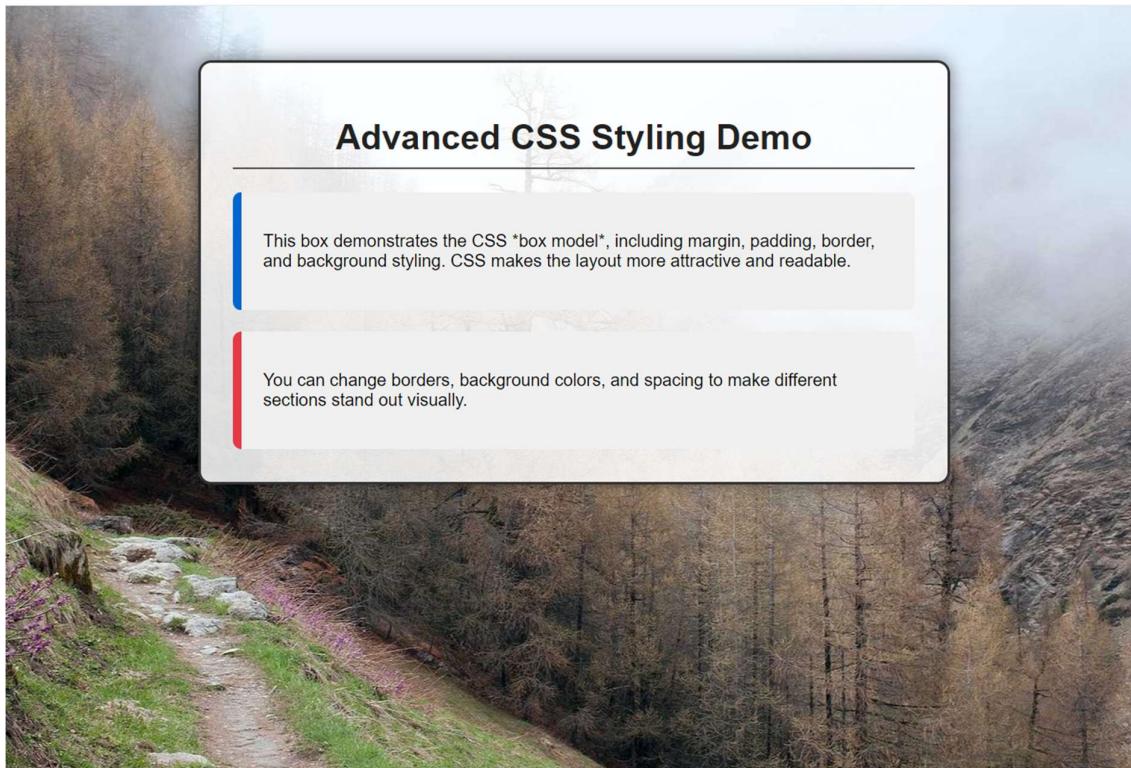
```
<!DOCTYPE html>
<html>
<head>
    <title>Advanced CSS Styling</title>
    <style>
        body {
            margin: 0;
            padding: 0;
            font-family: Arial, sans-serif;
            background-image: url('https://picsum.photos/1600/900');
            background-size: cover;
            background-attachment: fixed;
            background-position: center;
        }
        .container {
            width: 60%;
            background: #rgba(255, 255, 255, 0.85);
            margin: 50px auto;
            padding: 30px;
            border: 3px solid #333;
            border-radius: 12px;
            box-shadow: 0 0 15px #rgba(0,0,0,0.5);
        }
        h1 {
            text-align: center;
            color: #222;
            border-bottom: 2px solid #555;
            padding-bottom: 10px;
        }
        .box {
            margin-top: 20px;
            padding: 20px;
            background: #f0f0f0;
            border-left: 3px solid #0066cc;
            border-radius: 8px;
        }
    </style>
</head>
<body>
    <div class="container">
        <h1>Advanced CSS Styling Demo</h1>
        <div class="box">
            <p> This box demonstrates the CSS "box model", including margin, padding, border, and background styling. CSS makes the layout more attractive and readable.</p>
            <p> You can change borders, background colors, and spacing to make different sections stand out visually.</p>
        </div>
    </div>
</body>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
    <style>
        body {
            margin: 0;
            padding: 0;
            font-family: Arial, sans-serif;
            background-image: url('https://picsum.photos/1600/900');
            background-size: cover;
            background-attachment: fixed;
            background-position: center;
        }
        .container {
            width: 60%;
            background: #rgba(255, 255, 255, 0.85);
            margin: 50px auto;
            padding: 30px;
            border: 3px solid #333;
            border-radius: 12px;
            box-shadow: 0 0 15px #rgba(0,0,0,0.5);
        }
        h1 {
            text-align: center;
            color: #222;
            border-bottom: 2px solid #555;
            padding-bottom: 10px;
        }
        .box {
            margin-top: 20px;
            padding: 20px;
            background: #f0f0f0;
            border-left: 3px solid #0066cc;
            border-radius: 8px;
        }
    </style>
</head>
<body>
    <div class="container">
        <h1>Advanced CSS Styling Demo</h1>
        <div class="box">
            <p> This box demonstrates the CSS "box model", including margin, padding, border, and background styling. CSS makes the layout more attractive and readable.</p>
            <p> You can change borders, background colors, and spacing to make different sections stand out visually.</p>
        </div>
    </div>
</body>
</html>
```

Ln 24, Col 1 Spaces: 4 UTF-8 CRLF ⓘ HTML ⌂ Signed out ⌂ Port: 550

OUTPUT



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

The screenshot shows a code editor interface with two main panes. The left pane displays a file tree under 'OPEN EDITORS' titled 'PALAK DESKTOP'. The right pane shows the content of 'Program8.html'.

HTML Content:

```
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <h1 id="main-title">CSS Selectors Demo</h1>
    <p class="highlight">This is a paragraph using a class selector.</p>
    <div class="container">
        <h2>Inside Container</h2>
        <p>This paragraph is inside a div used for descendant selector.</p>
    </div>
    <h3>Another Heading</h3>
    <p>Normal paragraph.</p>
    /* 1. Universal Selector */
    *
    {
        font-family: Arial, sans-serif;
    }
    /* 2. ID Selector */
    #main-title {
        color: darkblue;
        text-decoration: underline;
    }
    /* 3. Class Selector */
    .highlight {
        background-color: yellow;
        padding: 5px;
    }
    /* 4. Descendant Selector */
    .container p {
        color: green;
        font-weight: bold;
    }
    /* 5. Group Selector */
    h2, h3, p {
        margin-bottom: 10px;
    }
</body>
</html>
```

CSS Content:

```
/* 4. Descendant Selector */
.container p {
    color: green;
    font-weight: bold;
}
/* 5. Group Selector */
h2, h3, p {
    margin-bottom: 10px;
}
```

At the bottom right of the editor, there is a status bar with the text: 'Ln 34, Col 2 Spaces: 4 UTF-8 CRLF {'. The code editor has a dark theme with syntax highlighting for HTML and CSS.

OUTPUT

The screenshot shows a web browser window with the URL `http://127.0.0.1:5500/Program8.html` in the address bar. The page content is titled "CSS Selectors Demo". It contains several paragraphs and headings demonstrating different CSS selection techniques:

- A regular paragraph: "This is a paragraph using a class selector."
- A paragraph inside a `<div>`: "This paragraph is inside a div – used for descendant selector."
- A heading: "Another Heading"
- A normal paragraph: "Normal paragraph."

The CSS code at the bottom of the page is as follows:

```
/* 1. Universal Selector */ /* { font-family: Arial, sans-serif; } /* 2. ID Selector */ #main-title { color: darkblue; text-decoration: underline; } /* 3. Class Selector */ .highlight { background-color: yellow; padding: 5px; } /* 4. Descendant Selector */ .container p { color: green; font-weight: bold; } /* 5. Group Selector */ h2, h3, p { margin-bottom: 10px; }
```

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

The screenshot displays a code editor interface with two main panes. The left pane shows a file tree under the heading 'OPEN EDITORS' with 'PALAK DESKTOP' expanded, showing files like 'Program1.html' through 'Program10.html'. Below this are 'OUTLINE' and 'TIMELINE' sections. The right pane contains the content of 'Program9.css'. The CSS code includes a media query for a minimum width of 600px, setting various properties for the document's head, body, header, nav ul, nav li, and main grid. It also defines styles for articles and footers with specific background colors and padding. The status bar at the bottom indicates 'Ln 89, Col 2' and other system details.

```
<!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</title>
    <link rel="stylesheet" href="styles.css" />
</head>
<body>
    <header>
        <nav>
            <ul>
                <li><a href="#">Home</a></li>
                <li><a href="#">About</a></li>
                <li><a href="#">Services</a></li>
                <li><a href="#">Contact</a></li>
            </ul>
        </nav>
    </header>
    <main>
        <div>
            <h1>Responsive Web Page</h1>
            <p>This is a responsive web page example. It uses CSS media queries to adapt to different screen sizes. The page features a header with navigation links, a main content area with a grid layout, and a footer with contact information. The design is optimized for mobile devices with a maximum width of 1280px.</p>
        </div>
    </main>
    <footer>
        <p>Copyright © 2023. All Rights Reserved. <a href="#">Privacy Policy</p>
    </footer>
</body>

```

```
nav li {
    display: inline-block;
    margin: 0 0.5em;
}

nav a {
    color: #fff;
    text-decoration: none;
    font-weight: bold;
}

main {
    padding: 1em;
    max-width: var(--max-width);
    margin: 0 auto;
}

.grid {
    display: flex;
    flex-direction: column;
    gap: 1em;
}

article {
    background: #f0f0f0;
    padding: 1em;
    border-radius: 0.5em;
}

footer {
    background: #222;
    color: #ccc;
    text-align: center;
    padding: 1em;
}
```

```
71 }
72
73 @media (min-width: 600px) {
74   nav ul {
75     display: flex;
76     justify-content: center;
77     margin-top: 0.5em;
78   }
79
80   .grid {
81     flex-direction: row;
82     flex-wrap: wrap;
83     gap: 2%;
84   }
85
86   article {
87     flex: 1 1 48%;
88   }
89 }
90 @media (min-width: 900px) {
91   header {
92     text-align: left;
93     padding: 1.5em 2em;
94   }
95
96   nav ul {
97     justify-content: flex-end;
98   }
99
100  .grid {
101    flex-wrap: nowrap;
102  }
103
104  article {
```

Ln 89, Col 2 Spaces: 4 UTF-8 CRLF ⓘ HTML

```
105   flex: 1 1 30%;
106 }
107
108 </style>
109 <body>
110   <header>
111     <h1>My Responsive Site</h1>
112     <nav>
113       <ul>
114         <li><a href="#">Home</a></li>
115         <li><a href="#">About</a></li>
116         <li><a href="#">Services</a></li>
117         <li><a href="#">Contact</a></li>
118       </ul>
119     </nav>
120   </header>
121
122   <main>
123     <section class="intro">
124       <h2>Welcome!</h2>
125       <p>
126         This page adapts to different screen sizes using flexible units and media queries.
127       </p>
128     </section>
129     <section class="grid">
130       <article>
131         <h3>Article 1</h3>
132         <p>Content for the first article goes here.</p>
133       </article>
134       <article>
135         <h3>Article 2</h3>
136         <p>Content for the second article goes here.</p>
137       </article>
138       <article>
139         <h3>Article 3</h3>
140         <p>Content for the third article goes here.</p>
141       </article>
142     </section>
143   </main>
144   <footer>
145     <p>© 2025 My Responsive Site</p>
146   </footer>
147 </body>
148 </html>
```

```
149
```

Ln 128, Col 15 Spaces: 4 UTF-8 CRLF ⓘ HTML

OUTPUT

The screenshot shows a web browser window with two tabs: "Semantic Web Page" and "ChatGPT". The main content area displays a responsive website titled "My Responsive Site". The header includes a navigation menu with links to Home, About, Services, and Contact. Below the header, a section titled "Welcome!" is followed by a descriptive text: "This page adapts to different screen sizes using flexible units and media queries.". The main content is organized into three columns, each containing an article title and content: "Article 1" with "Content for the first article goes here.", "Article 2" with "Content for the second article goes here.", and "Article 3" with "Content for the third article goes here.". At the bottom of the page is a dark footer bar with the copyright notice "© 2025 My Responsive Site".

My Responsive Site

Home About Services Contact

Welcome!

This page adapts to different screen sizes using flexible units and media queries.

Article 1

Content for the first article goes here.

Article 2

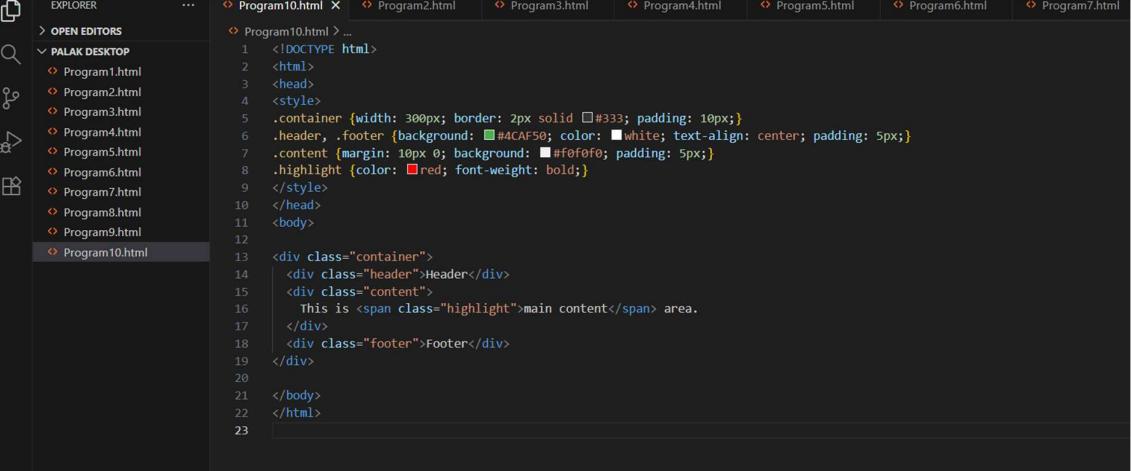
Content for the second article goes here.

Article 3

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



The screenshot shows a code editor interface with the following details:

- EXPLORER** sidebar: Shows a tree view of files under "PALAK DESKTOP", including Program1.html through Program10.html.
- Program10.html** editor tab: The active file is Program10.html.
- Code Content:**

```
<!DOCTYPE html>
<html>
<head>
<style>
.container {width: 300px; border: 2px solid #333; padding: 10px;}
.header, .footer {background: #4CAF50; color: white; text-align: center; padding: 5px;}
.content {margin: 10px 0; background: #f0f0f0; padding: 5px;}
.highlight {color: red; font-weight: bold;}
</style>
</head>
<body>
<div class="container">
<div class="header">Header</div>
<div class="content">
This is <span class="highlight">main content</span> area.
</div>
<div class="footer">Footer</div>
</div>
</body>
</html>
```

Output:

