# 1.Create +C46: C65a basic HTML web page using headings, paragraph and text formatting tags.
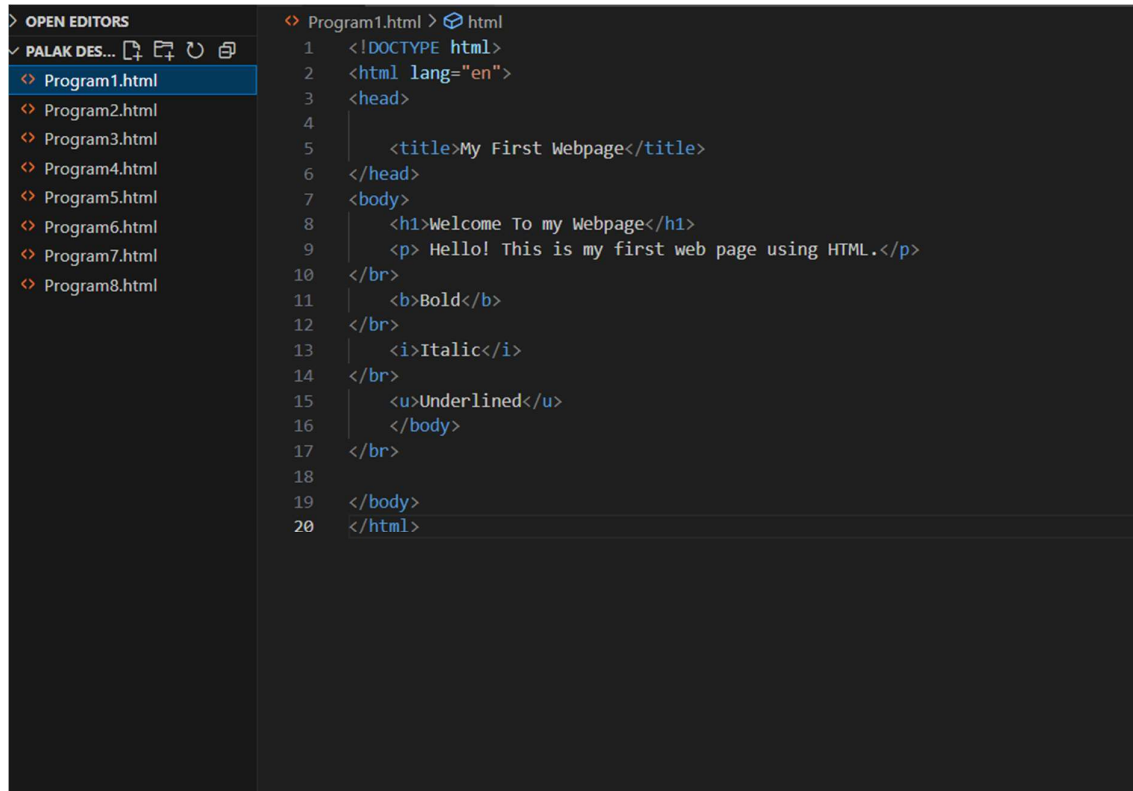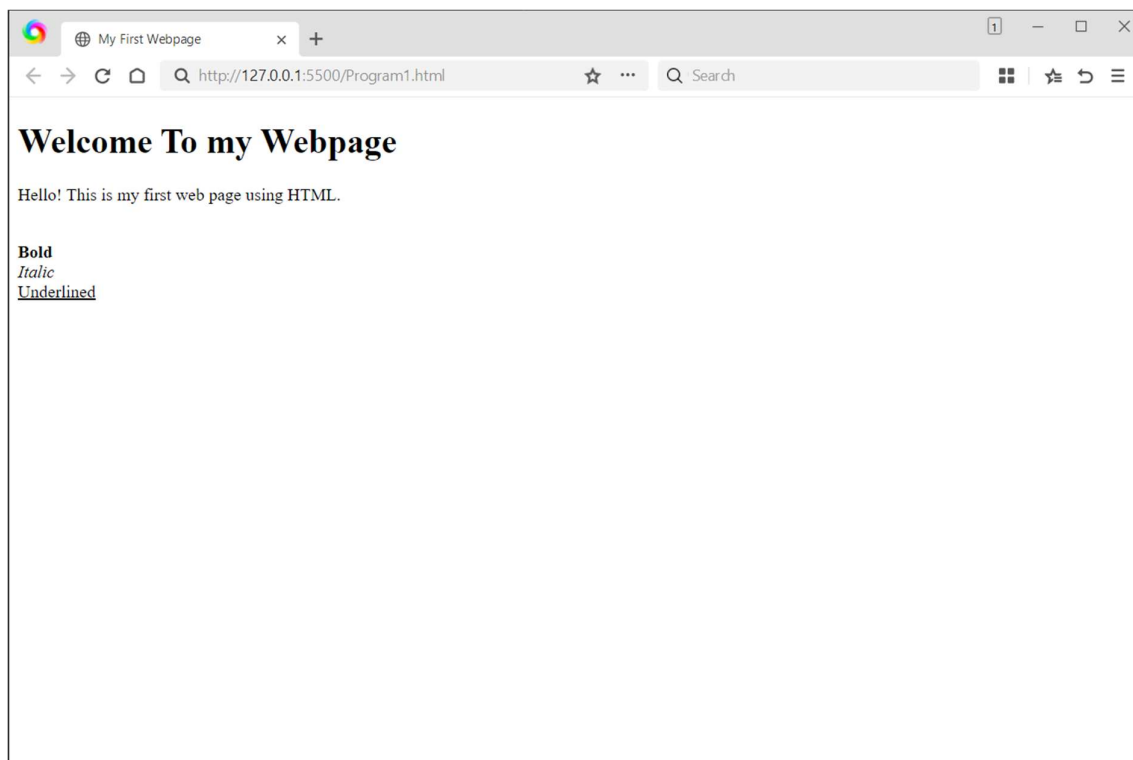
```
Program1.html > html
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4
5       <title>My First Webpage</title>
6   </head>
7   <body>
8       <h1>Welcome To my Webpage</h1>
9       <p> Hello! This is my first web page using HTML.</p>
10  </br>
11      <b>Bold</b>
12  </br>
13      <i>Italic</i>
14  </br>
15      <u>Underlined</u>
16      </body>
17  </br>
18
19  </body>
20  </html>
```
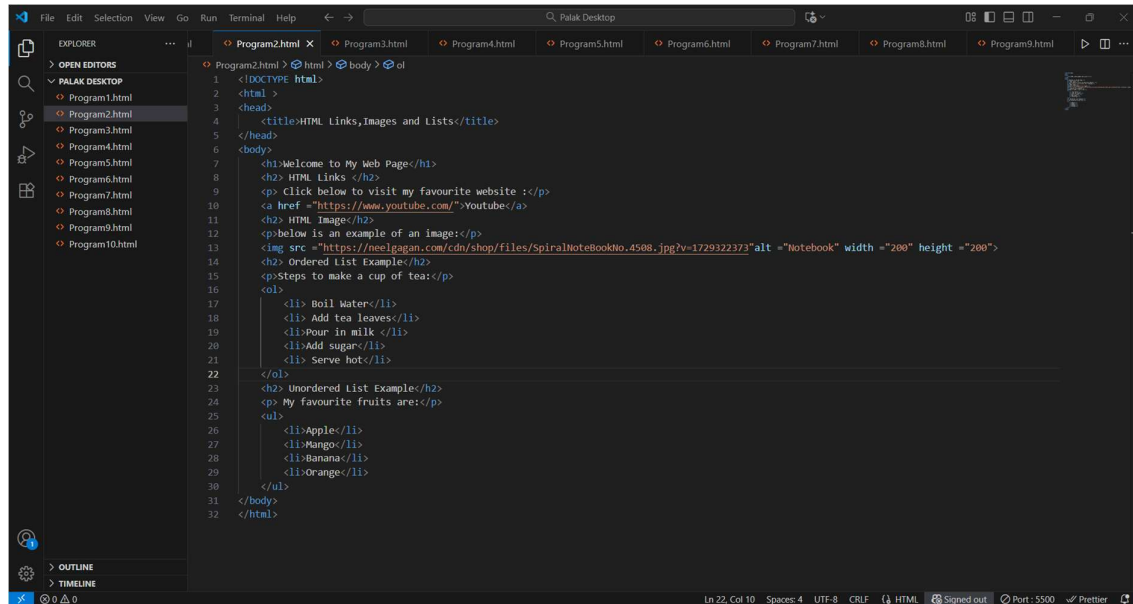
## OUTPUT

My First Webpage
http://127.0.0.1:5500/Program1.html

## Welcome To my Webpage

Hello! This is my first web page using HTML.

**Bold**
*Italic*
<u>Underlined</u>

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



```html
<!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.4508.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

## HTML Image

below is an example of an image:



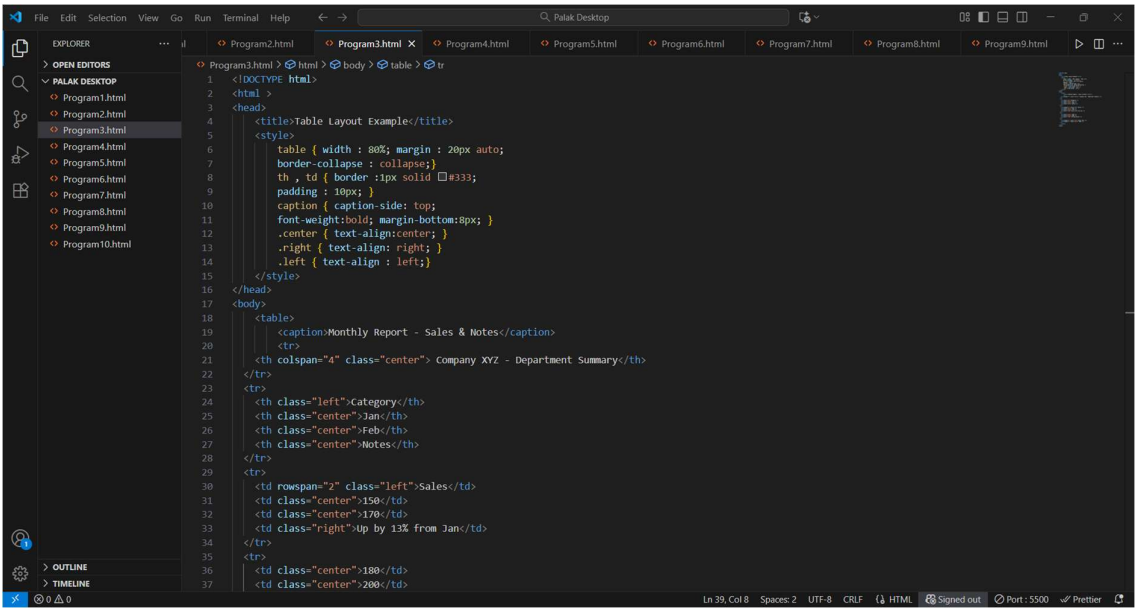## Ordered List Example

Steps to make a cup of tea:

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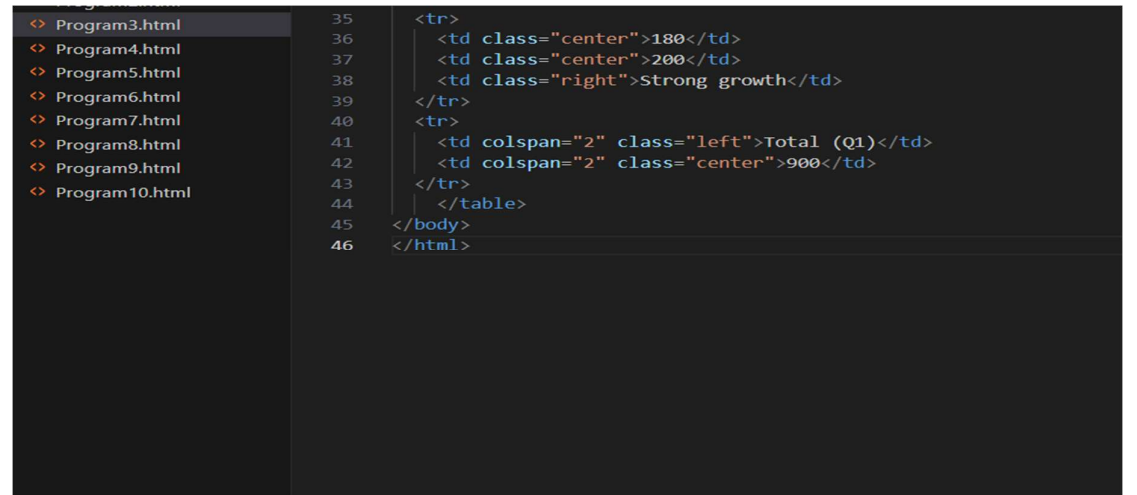4. Add sugar
5. Serve hot

## Unordered List Example

My favourite fruits are:

- Apple
- Mango
- Banana
- Orange

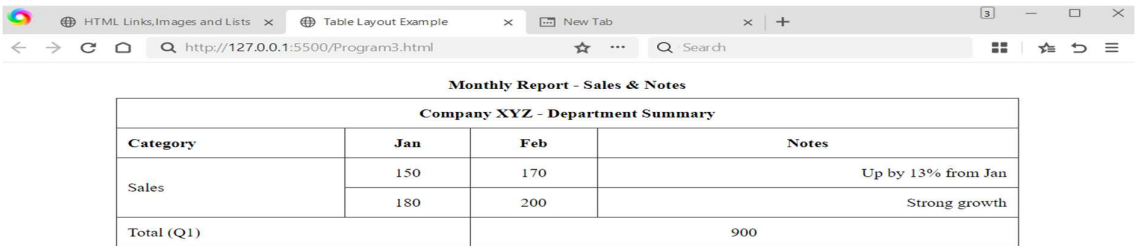# 3.Create a table- based layout with merged cells, alignment, and caption using HTML.

```html
<!DOCTYPE html>
<html>
<head>
    <title>Table Layout Example</title>
    <style>
        table { width : 80%; margin : 20px auto;
        border-collapse : collapse;}
        th , td { border :1px solid #333;
        padding : 10px; }
        caption { caption-side: top;
        font-weight:bold; margin-bottom:8px; }
        .center { text-align:center; }
        .right { text-align: right; }
        .left { text-align : left;}
    </style>
</head>
<body>
    <table>
        <caption>Monthly Report - Sales & Notes</caption>
        <tr>
        <th colspan="4" class="center"> Company XYZ - Department Summary</th>
    </tr>
    <tr>
        <th class="left">Category</th>
        <th class="center">Jan</th>
        <th class="center">Feb</th>
        <th class="center">Notes</th>
    </tr>
    <tr>
        <td rowspan="2" class="left">Sales</td>
        <td class="center">150</td>
        <td class="center">170</td>
        <td class="right">Up by 13% from Jan</td>
    </tr>
    <tr>
        <td class="center">180</td>
        <td class="center">200</td>
```
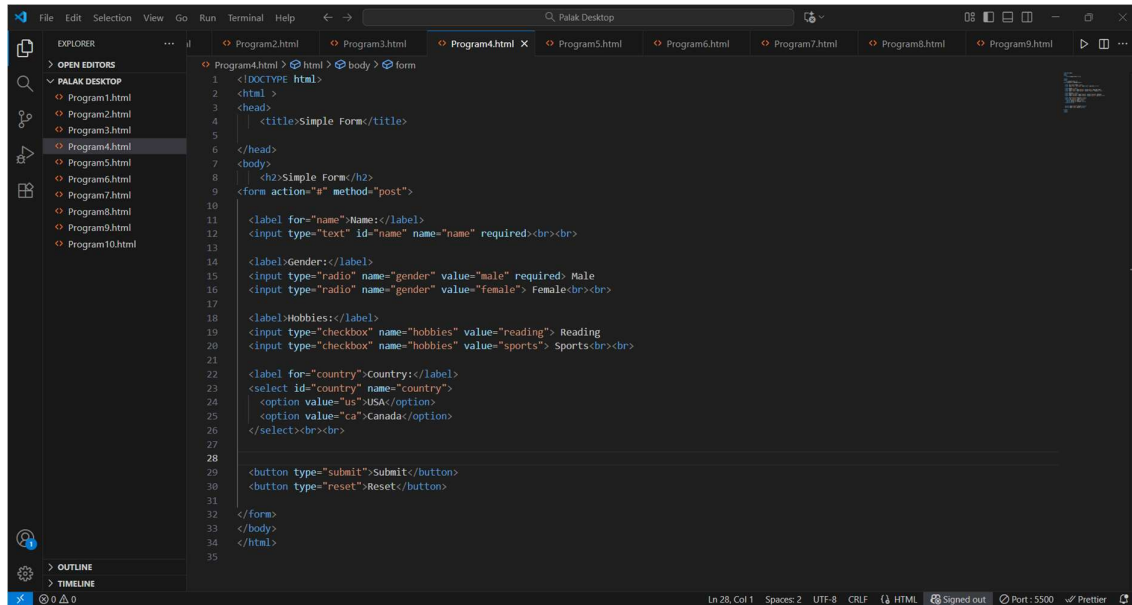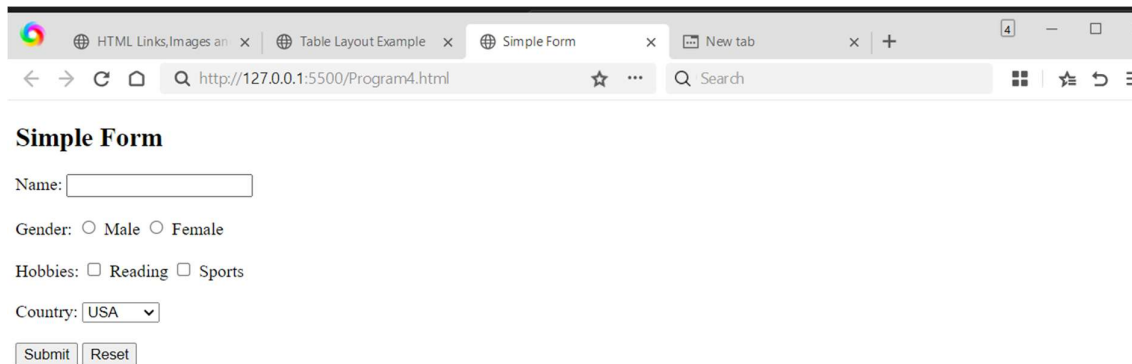
```html
    <tr>
        <td class="center">180</td>
        <td class="center">200</td>
        <td class="right">Strong growth</td>
    </tr>
    <tr>
        <td colspan="2" class="left">Total (Q1)</td>
        <td colspan="2" class="center">900</td>
    </tr>
    </table>
</body>
</html>
```

**OUTPUT**

### 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.



OUTPUT

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

```html
<!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>
```

```html
<nav>
    <a href="#">Home</a> |
    <a href="#">About</a> |
    <a href="#">Contact</a>
  </nav>

  <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**

Search

# My Semantic Web Page

## Main Content Section

### Article 1

This is the first article. It contains useful content.

### Article 2

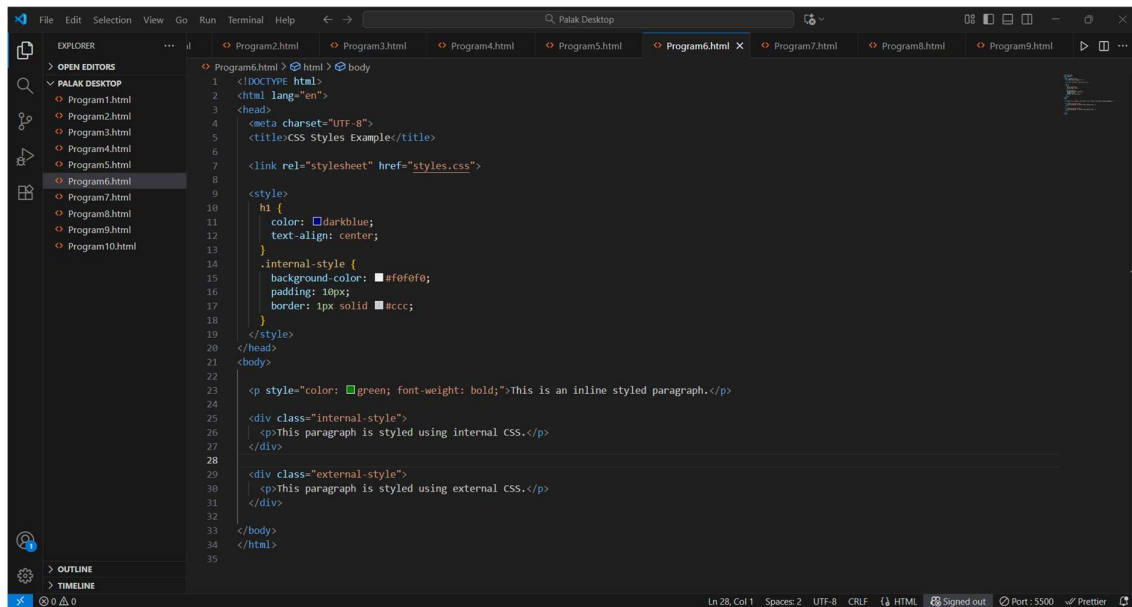This is the second article with more information.

### Sidebar

This is some additional info or links in the sidebar.

### Sidebar

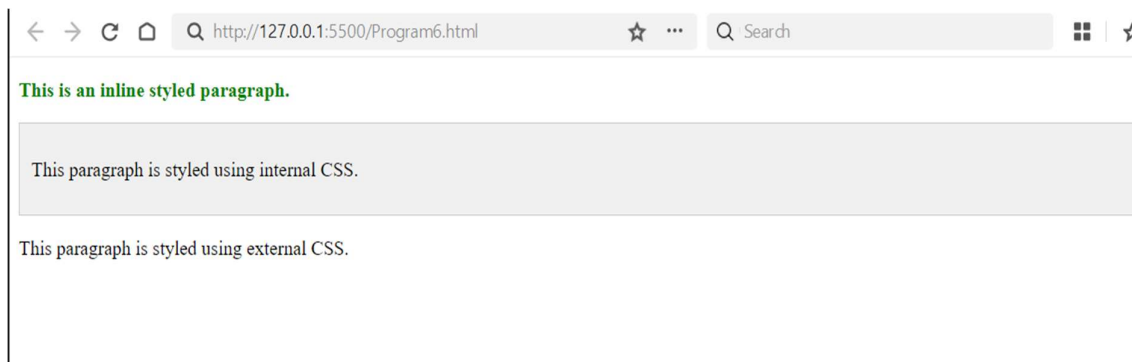This is some additional info or links in the sidebar.

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



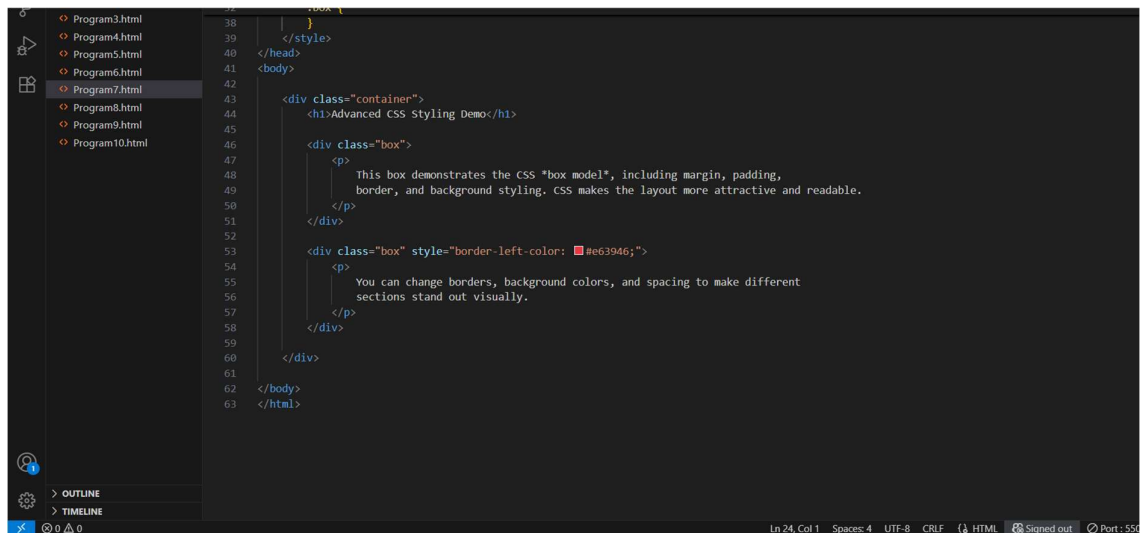## OUTPUT

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

```html
<!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: 8px solid #0066cc;
            border-radius: 8px;
```
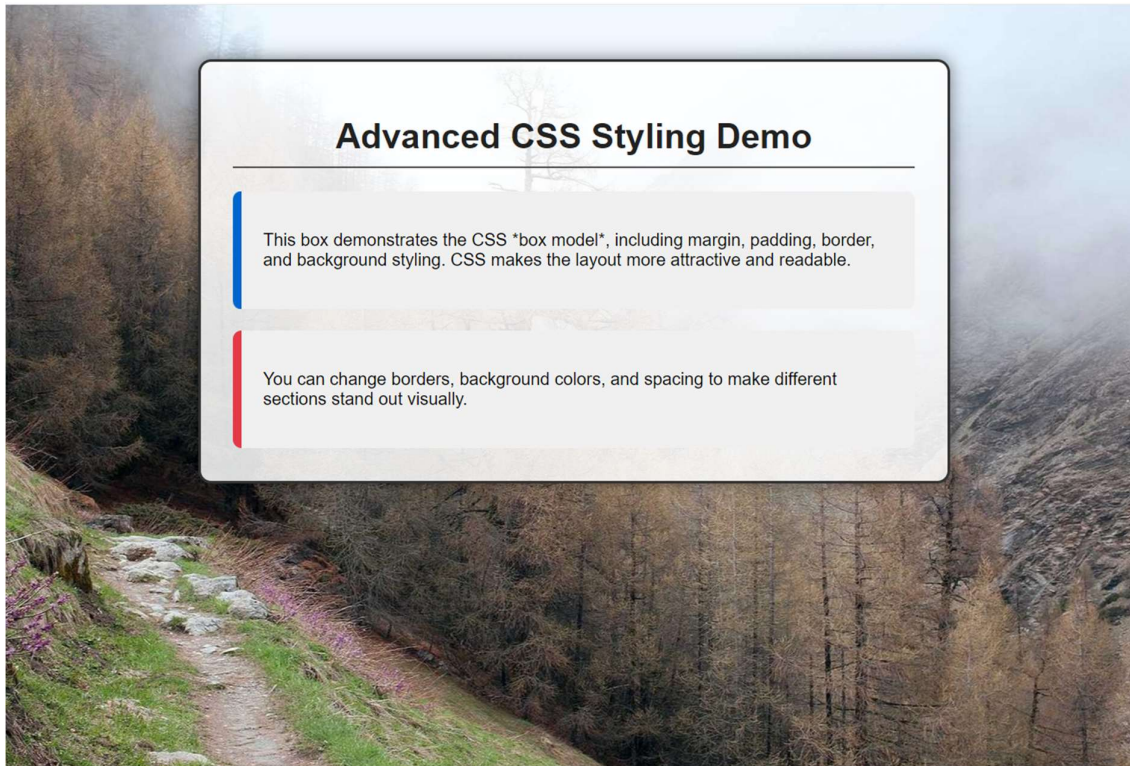
```html
        }
    </style>
</head>
<body>

    <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>
        </div>

        <div class="box" style="border-left-color: #e63946;">
            <p>
                You can change borders, background colors, and spacing to make different
                sections stand out visually.
            </p>
        </div>

    </div>

</body>
</html>
```

**OUTPUT**



## Advanced CSS Styling Demo

This box demonstrates the CSS *box model*, including margin, padding, border, and background styling. CSS makes the layout more attractive and readable.

You can change borders, background colors, and spacing to make different sections stand out visually.

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

◇ Program8.html > ❂ html > ❂ body

```html
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <link rel="stylesheet" href="style.css">
5   </head>
6   <body>
7
8       <h1 id="main-title">CSS Selectors Demo</h1>
9
10      <p class="highlight">This is a paragraph using a class selector.</p>
11
12      <div class="container">
13          <h2>Inside Container</h2>
14          <p>This paragraph is inside a div  used for descendant selector.</p>
15      </div>
16
17      <h3>Another Heading</h3>
18      <p>Normal paragraph.</p>
19      /* 1. Universal Selector */
20  * {
21      font-family: Arial, sans-serif;
22  }
23
24  /* 2. ID Selector */
25  #main-title {
26      color: darkblue;
27      text-decoration: underline;
28  }
29
30  /* 3. Class Selector */
31  .highlight {
32      background-color: yellow;
33      padding: 5px;
34  }
35
36  /* 4. Descendant Selector */
37  .container p {
```
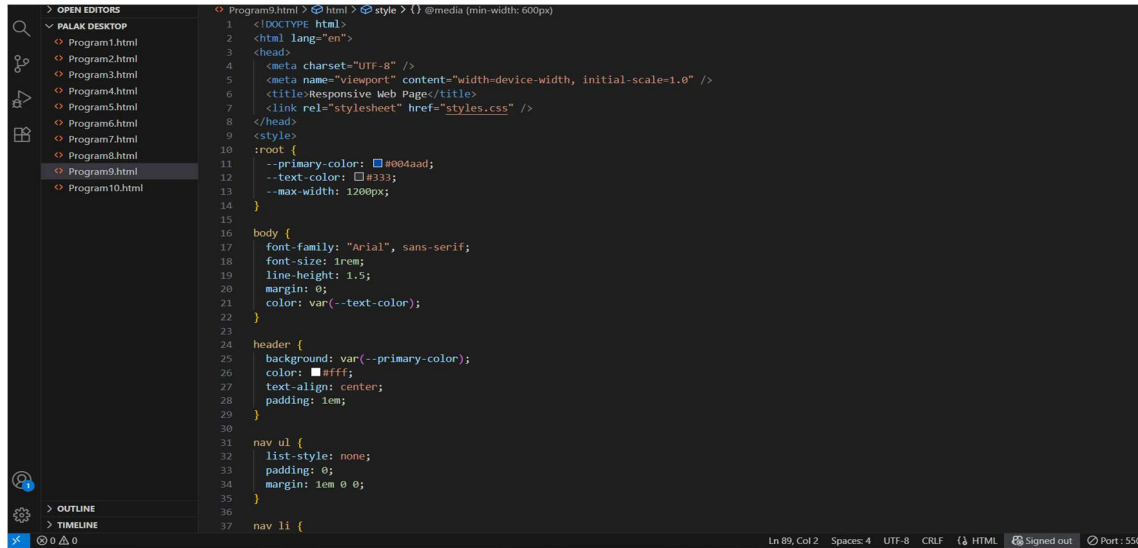
```css
36  /* 4. Descendant Selector */
37  .container p {
38      color: green;
39      font-weight: bold;
40  }
41
42  /* 5. Group Selector */
43  h2, h3, p {
44      margin-bottom: 10px;
45  }
46
47  </body>
48  </html>
```

Ln 34, Col 2    Spaces: 4    UTF-8    CRLF    {

**OUTPUT**

# CSS Selectors Demo

This is a paragraph using a class selector.

## Inside Container

This paragraph is inside a div – used for descendant selector.

### Another Heading

Normal paragraph.

/* 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; }
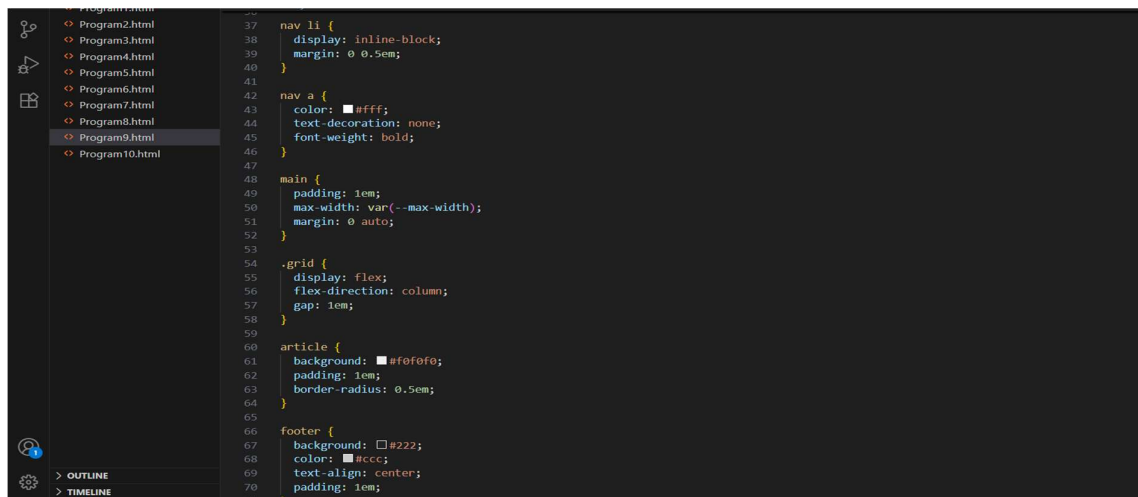
## 9.Create a responsive web page using web page using media queries and mobile – first design with flexible units.

```
 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 {
```

```
 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 {
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>
```

```
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>&copy; 2025 My Responsive Site</p>
146        </footer>
147    </body>
148    </html>
149
```
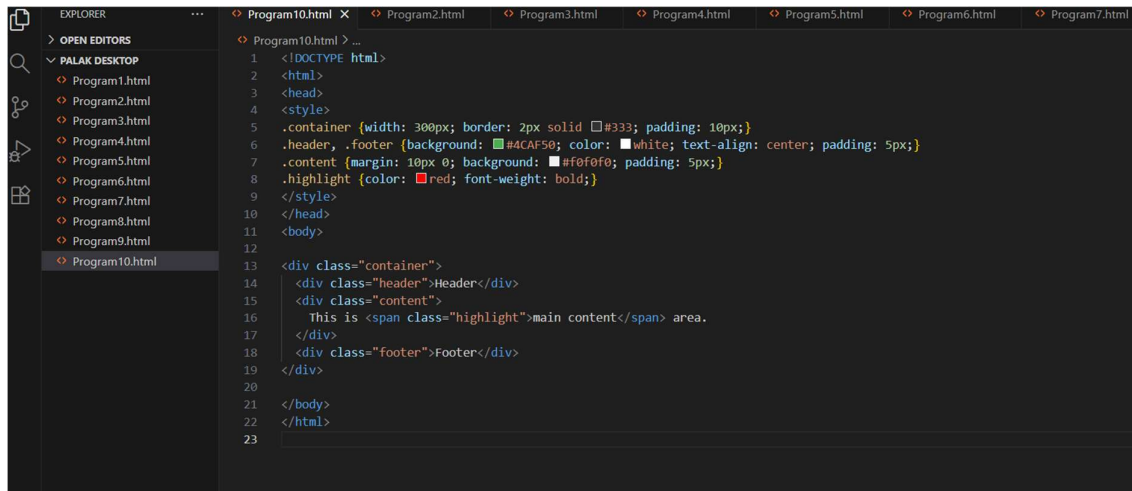
**OUTPUT**



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**

Content for the third article goes here.

© 2025 My Responsive Site
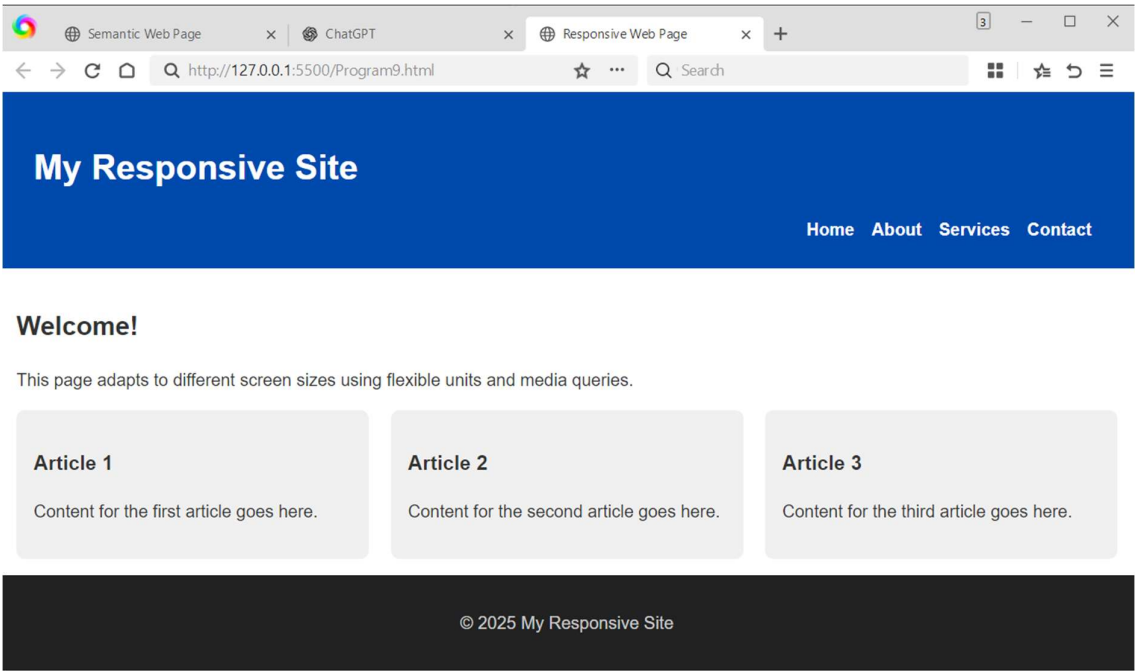
# 10.Use div and span elements for layout and styling with CSS.

```html
<!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: