1.HTML BASICS

1. Understand the basics.html which was already created
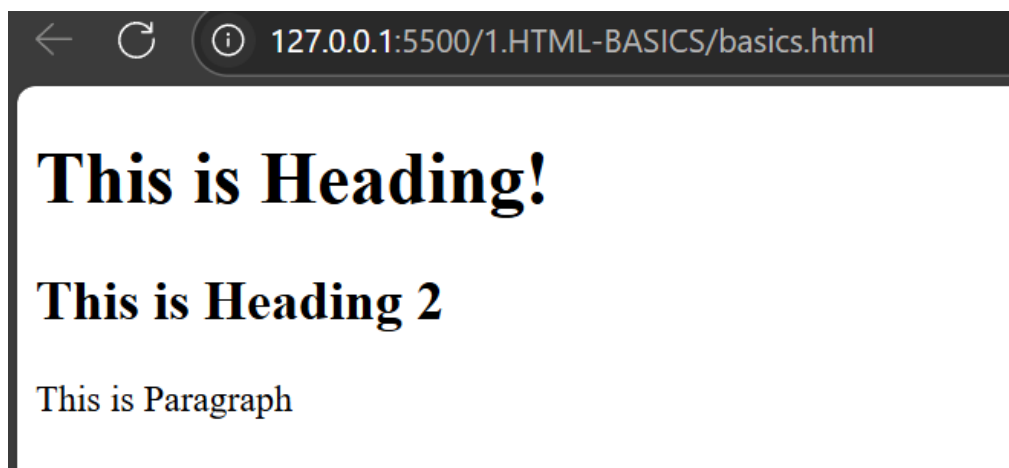
2. Develop your own web page basics.html with all the following html tags
Html, head, title, body Heading, Paragraph, Italic, Bold, Anchor,
Unordered List, List Item, ,label,Blockquote, Horizontal rule, Image,
Division, Span.
   AND

4. . Use pseudo classes and elements into your webpage

```
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <title>My Favorite Travel Destination</title>
5        <style>
6            /* Pseudo-class: hover for links */
7            a:hover {
8                color: darkorange;
9                text-decoration: underline;
10           }
11
12           /* Pseudo-class: first-child to style the first item in the list */
13           ul li:first-child {
14               font-weight: bold;
15               color: green;
16           }
17
18           /* Pseudo-class: nth-child to style every even food item */
19           ol li:nth-child(even) {
20               background-color: #f0f0f0;
21           }
22
23           /* Pseudo-element: Add text before headings */
24           h2::before {
25               content: "🗺 ";
26           }
27
28           h3::before {
29               content: "📷 ";
30           }
31
32           /* Pseudo-element: Add quote icon before blockquote */
33           blockquote::before {
34               content: "“";
35               font-size: 24px;
36               vertical-align: top;
37           }
38
39           blockquote::after {
40               content: "”";
41               font-size: 24px;
42               vertical-align: bottom;
43           }
44
45           /* Pseudo-class: span hover effect */
46           span:hover {
47               background-color: yellow;
48           }
49       </style>
50   </head>
51   <body>
```

```html
52
53      <!-- Navigation Menu -->
54      <h2>Quick Navigation</h2>
55      <ul>
56          <li><a href="#intro">Introduction</a></li>
57          <li><a href="#places">Places to Visit</a></li>
58          <li><a href="#food">Food to Taste</a></li>
59          <li><a href="#tip">Travel Tip</a></li>
60          <li><a href="#quote">Quote</a></li>
61      </ul>
62
63      <!-- Introduction Section -->
64      <h1 id="intro">WELCOME TO INDIA</h1>
65      <div style="text-align:center;">
66          <p><i><span>Indian land of diverse cultures, breathtaking landscapes, and ancient history</span>, is a
            dream destination for every traveler. 50+ must-visit places in India—from the Taj Mahal to Ladakh, Kerala
            backwaters to the Rann of Kutch.</i></p>
67      </div>
68      <a href="https://www.rainforestcruises.com/guides/top-10-tourist-attractions-in-india" target="_blank">Tourist
        Images</a>
69
70      <!-- Places Section -->
71      <h2 id="places">Places to Visit in India</h2>
72      <div>
73          <ul>
74              <li>Taj Mahal</li>
75              <li>Kasi</li>
76              <li>Rann of Kutch</li>
77              <li>Ladakh</li>
78              <li>Kerala</li>
79              <li>Kashmir</li>
80              <li>Thousand Pillar Temple</li>
81              <li>Bhadrakali Temple</li>
82              <li>Golden Temple</li>
83          </ul>
84      </div>
85
86      <!-- Food Section -->
87      <hr>
88      <h3 id="food">Food to Taste</h3>
89      <ol>
90          <li>Chaat</li>
91          <li>Pani Puri</li>
92          <li>Biryani</li>
93          <li>Vada Pav</li>
94          <li>Pav Bhaji</li>
95          <li>Naan</li>
96          <li>Butter Chicken</li>
97          <li>Tiffins</li>
98      </ol>

        <!-- Travel Tip -->
        <h3 id="tip">Travel Tip</h3>
        <label>Tip:</label>
        <p>Always carry cash as not all places accept cards.</p>

        <!-- Image -->
        <div>
            <img src="https://i0.wp.com/www.romanticbug.com/wp-content/uploads/2015/11/India-Gate.-Delhi.jpg?
            resize=1200%2C700" height="150" alt="India Gate">
        </div>

        <!-- Quote Section -->
        <h3 id="quote">Inspirational Travel Quote</h3>
        <blockquote>
            Traveling — it leaves you speechless, then turns you into a storyteller. — Ibn Battuta
        </blockquote>

        <!-- Back to Top -->
        <a href="#intro">Back to Top</a>

</body>
</html>
```

🗺 Quick Navigation

- **Introduction**
- Places to Visit
- Food to Taste
- Travel Tip
- Quote

WELCOME TO INDIA

Indian land of diverse cultures, breathtaking landscapes, and ancient history, is a dream destination for every traveler. 50+ must-visit places in India—from the Taj Mahal to Ladakh, Kerala backwaters to the Rann of Kutch.

Tourist Images

🗺 Places to Visit in India

- **Taj Mahal**
- Kasi
- Rann of Kutch
- Ladakh
- Kerala
- Kashmir
- Thousand Pillar Temple
- Bhadrakali Temple
- Golden Temple

🍽 Food to Taste

1. Chaat
2. Pani Puri
3. Biryani
4. Vada Pav
5. Pav Bhaji
6. Naan
7. Butter Chicken
8. Tiffins

🍽 Travel Tip

Tip:

Always carry cash as not all places accept cards.

🍽 Inspirational Travel Quote

❝ Traveling – it leaves you speechless, then turns you into a storyteller. – Ibn Battuta ❞

Back to Top

3. Navigate within the page to a different section.

WELCOME TO INDIA

Indian land of diverse cultures, breathtaking landscapes, and ancient history, is a dream destination for every traveler.50+ must-visit places in India—from the Taj Mahal to Ladakh, Kerala backwaters to the Rann of Kutch. Add these breathtaking destinations to your bucket list!

tourist images

places to visit in India

- Taj Mahal
- Kasi
- Run of Kutch
- Ladakh
- Kerala
- Kashmir
- Thousand Pillar Temple
- Bhadrakali Temple
- Golden Temple

Food to Taste

1. Chaat
2. pani puri
3. Biryani
4. Vada pav
5. Pav Baji
6. Naan
7. Butter Chicken

After clicking tourist Images it displays the following web page.

1. CSS Basics

1. Add CSS comments in your CSS block.

```html
<!DOCTYPE html>
<head>
    <link rel="stylesheet" href="/comments.css"/>
</head>
<body>
    <p>This is a paragraph</p>
    <h1>This is Heading</h1>
</body>
```

```css
/* This is a comment */
body{
    background-color: chartreuse;
}
p,h1{
    color: chocolate;
}
```

127.0.0.1:5500/1.CSS-BASICS/comments.html

This is a paragraph

This is Heading

2. Create a page with different background-colour of a page and set an image as the background-image of a page (image should not scroll with the rest of the page and specify the size of a background image)


```
1.CSS-BASICS > <> paragraph02.html > ⊘ html
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <link rel="stylesheet" href="/paragraph02.css">
5    </head>
6    <body>
7        <h1>Hello</h1>
8        <h2>World</h2>
9        <p>This is paragraph</p>
10       <img src="https://wallpapercave.com/wp/uUqxVHp.jpg " height="150">
11   </body>
12   </html>
```
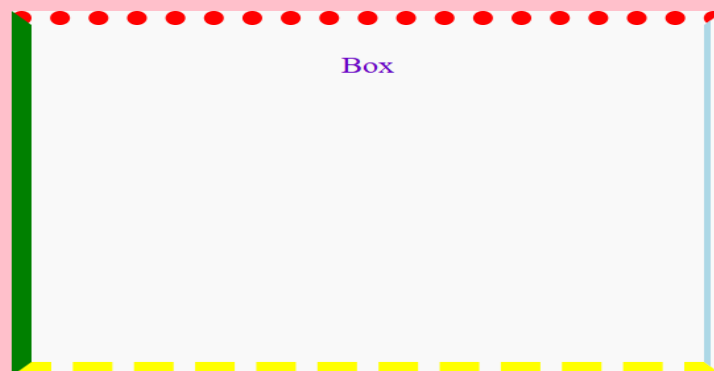
```
1.CSS-BASICS > # paragraph02.css > 😎 h1
1    body{
2        background-color: ■pink;
3
4    }
5    h1{
6        color: ■blueviolet;
7    }
```

3.Create a different page with the width, style and color of the 4 border-style(set different borders on each side with different patterns)

```
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <title>Different Border Styles</title>
5        <link rel="stylesheet" href="/borders.css"/>
6    </head>
7    <body>
8        <h2>Box with Different Borders</h2>
9
10       <div>
11       Box
12       </div>
13   </body>
14   </html>
15
```

1.CSS-BASICS > # borders.css > 🐾 body
```
1    body{
2        background-color: ■pink;
3    }
4    h2{
5        text-align: center;
6    }
7    div{
8            width: 300px;
9            height: 200px;
10           margin: 50px auto;
11           padding: 20px;
12           text-align: center;
13           background-color: ■#f9f9f9;
14       border-left: 10px solid ■green;
15       border-bottom: 10px dashed ■yellow;
16       border-top: 10px dotted ■red;
17       border-right: 10px double ■lightblue;
18       color: ■rgb(104, 3, 198);
19
20   }
```

4. Develop a page and set the height:(in pixels and %) and width:(in pixels and %) on elements.

```html
<> box-dimensions.html  ✕      <> Differentfonts-05.html

1.CSS-BASICS > <> box-dimensions.html > </> html > </> body
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <title>Height and Width Demo</title>
5        <style>
6            /* Box with fixed height and width in pixels */
7            .pixel-box {
8                width: 300px;
9                height: 150px;
10               background-color: ■lightcoral;
11               margin: 20px auto;
12               text-align: center;
13               line-height: 150px;
14               color: ■white;
15               font-weight: bold;
16           }
17
18           /* Box with height and width in percentage of parent */
19           .percent-box {
20               width: 80%;
21               height: 200px;
22               background-color: ■lightseagreen;
23               margin: 20px auto;
24               text-align: center;
25               line-height: 200px;
26               color: ■white;
27               font-weight: bold;
28           }
```

```html
18           /* Box with height and width in percentage of parent */
19           .percent-box {
20               width: 80%;
21               height: 200px;
22               background-color: ■lightseagreen;
23               margin: 20px auto;
24               text-align: center;
25               line-height: 200px;
26               color: ■white;
27               font-weight: bold;
28           }
29
30           body {
31               background-color: ■#f0f0f0;
32               padding: 20px;
33           }
34       </style>
35   </head>
36   <body>
37       <h2>Box Dimensions Example</h2>
38
39       <div class="pixel-box">300px x 150px</div>
40
41       <div class="percent-box">80% width x 200px height</div>
42   </body>
43   </html>
```

Box Dimensions Example

300px x 150px

80% width x 200px height

5. Develop a page with different font-styles, font-size, font-family, colors and text-align.

```html
Differentfonts-05.html  ×

1.CSS-BASICS > <> Differentfonts-05.html > html > head > style > .fancy-text
 1     <!DOCTYPE html>
 2  v  <html>
 3  v  <head>
 4        <title>Text Styling Example</title>
 5  v     <style>
 6  v       body {
 7            background-color:  #fff8f0;
 8            padding: 30px;
 9            font-family: Arial, sans-serif;
10          }
11
12  v       h1 {
13            font-family: 'Georgia', serif;
14            font-size: 36px;
15            color:  #1e3d59;
16            text-align: center;
17          }
18
19  v       .fancy-text {
20            font-style: italic;
21            font-size: 20px;
22            color:  darkred;
23            text-align: left;
24          }
25
26  v       .highlighted {
27            font-weight: bold;
28            font-size: 24px;
29            color:  green;
```

```
28              font-size: 24px;
29              color: █green;
30              text-align: right;
31          }
32
33          .centered {
34              font-family: 'Courier New', monospace;
35              font-size: 18px;
36              color: █navy;
37              text-align: center;
38          }
39      </style>
40  </head>
41  <body>
42
43      <h1>Welcome to Styled Text Page</h1>
44
45      <p class="fancy-text">This paragraph uses italic style, dark red color, and is aligned left.</p>
46
47      <p class="highlighted">This text is bold, green, and aligned to the right.</p>
48
49      <p class="centered">This is monospace font, navy color, and centered text.</p>
50
51  </body>
52  </html>
```

Welcome to Styled Text Page

This paragraph uses italic style, dark red color, and is aligned left.

This text is bold, green, and aligned to the right.

This is monospace font, navy color, and centered text.
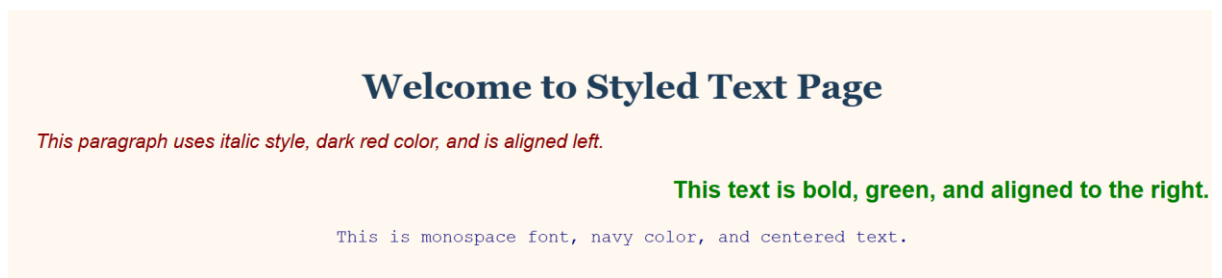
2. Input Attributes and Restrictions

1. Design the web page using all the below input attributes type =text, password, submit, reset, radio, checkbox, button,

```
<> input attriutes.html ×

2.Input Attributes and Restrictions > <> input attriutes.html > ...
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <title>Basic Input Types</title>
5   </head>
6   <body>
7       <h2>Form Input Types</h2>
8       <form>
9           <label>Name:</label>
10          <input type="text" name="username"><br><br>
11
12          <label>Password:</label>
13          <input type="password" name="password"><br><br>
14
15          <input type="radio" name="gender" value="male"> Male
16          <input type="radio" name="gender" value="female"> Female<br><br>
17
18          <input type="checkbox" name="subscribe"> Subscribe to newsletter<br><br>
19
20          <input type="submit" value="Submit">
21          <input type="reset" value="Reset"><br><br>
22
23          <button type="button" onclick="alert('Button clicked!')">Click Me</button>
24      </form>
25  </body>
26  </html>
```

Form Input Types

Name: [_____]

Password: [_____]

○ Male   ○ Female

☐ Subscribe to newsletter

[Submit] [Reset]

[Click Me]

2. HTML5 input Types type=number, range, color, date, file, time, month, week, email

```
<> Input types.html  ×

2.Input Attributes and Restrictions > <> Input types.html > ...
 1    <!DOCTYPE html>
 2    <html>
 3    <head>
 4      <title>HTML5 Input Types</title>
 5    </head>
 6    <body>
 7      <h2>HTML5 Input Types</h2>
 8      <form>
 9        <label>Number:</label>
10        <input type="number"><br><br>
11
12        <label>Range:</label>
13        <input type="range"><br><br>
14
15        <label>Color:</label>
16        <input type="color"><br><br>
17
18        <label>Date:</label>
19        <input type="date"><br><br>
20
21        <label>Time:</label>
22        <input type="time"><br><br>
23
24        <label>Month:</label>
25        <input type="month"><br><br>
26
27        <label>Week:</label>
28        <input type="week"><br><br>
```

```
30          <label>Email:</label>
31          <input type="email"><br><br>
32
33          <label>File:</label>
34          <input type="file"><br><br>
35      </form>
36   </body>
37   </html>
38
```

127.0.0.1:5500/2.Input%20Attributes%20and%20Restrictions/Input%20types.html

HTML5 Input Types

Number: [   ]

Range: [====●————]

Color: [■]

Date: [dd-mm-yyyy 📅]

Time: [--:-- 🕐]

Month: [--------, ---- 📅]

Week: [Week --, ---- 📅]

Email: [   ]

File: [Choose File] No file chosen

3. Apply all of the below input restrictions disabled, max, maxlength, min, readonly, required, size, value

```html
1   <!DOCTYPE html>
2   <html>
3   <head>
4     <title>Input Restrictions</title>
5   </head>
6   <body>
7     <h2>Input Restrictions</h2>
8     <form>
9       <label>Disabled:</label>
10      <input type="text" disabled value="Can't edit"><br><br>
11
12      <label>Max (100):</label>
13      <input type="number" max="100"><br><br>
14
15      <label>Min (1):</label>
16      <input type="number" min="1"><br><br>
17
18      <label>Maxlength (10):</label>
19      <input type="text" maxlength="10"><br><br>
20
21      <label>Readonly:</label>
22      <input type="text" readonly value="Readonly text"><br><br>
23
24      <label>Required:</label>
25      <input type="email" required><br><br>
26
27      <label>Size (30 characters wide):</label>
28      <input type="text" size="30"><br><br>
```

```html
27      <label>Size (30 characters wide):</label>
28      <input type="text" size="30"><br><br>
29
30      <label>Predefined Value:</label>
31      <input type="text" value="Default"><br><br>
32
33      <input type="submit" value="Submit">
34    </form>
35  </body>
36  </html>
37
```

Input Restrictions

Disabled: `Can't edit`

Max (100):

Min (1):

Maxlength (10):

Readonly: `Readonly text`

Required:

Size (30 characters wide):

Predefined Value: `Default`

`Submit`

4. Develop a web page using target attribute.

```html
1   <!DOCTYPE html>
2   <html>
3   <head>
4     <title>Target Attribute</title>
5   </head>
6   <body>
7     <h2>Using target="_blank"</h2>
8     <p>Click the link to open in a new tab:</p>
9     <a href="https://www.wikipedia.org" target="_blank">Visit Wikipedia</a><br><br>
10
11    <h3>Open in iframe:</h3>
12    <iframe name="myframe" width="400" height="200"></iframe><br>
13    <a href="https://www.example.com" target="myframe">Load Example.com here</a>
14  </body>
15  </html>
```

Using target="_blank"

Click the link to open in a new tab:

Visit Wikipedia

Open in iframe:

Example Domain

This domain is for use in illustrative examples in documents. You may use this domain in literature without prior coordination or asking for permission.

More information...

Load Example.com here

5.Use I-frames and Marquee in your webpage.

```html
<!DOCTYPE html>
<html>
<head>
    <title>Iframe and Marquee Example</title>
</head>
<body>
    <h2>Marquee and Iframe Demo</h2>

    <marquee behavior="scroll" direction="left" scrollamount="6">
      Welcome to our awesome web page!
    </marquee>

    <h3>Website inside an iframe:</h3>
    <iframe src="https://www.wikipedia.org" width="600" height="300"></iframe>
</body>
</html>
```

Marquee and Iframe Demo

Welcome to our awesome web page!

Website inside an iframe:

2. CSS Page Adjustments

1. A page which specify a black border for table and if hover on it, page should change it's colour.

Name	Age
Alice	24
Bob	30

```html
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="table.css">
</head>
<body>
    <table>
        <tr>
            <th>Name</th>
            <th>Age</th>
        </tr>
        <tr>
            <td>Alice</td>
            <td>24</td>
        </tr>
        <tr>
            <td>Bob</td>
            <td>30</td>
        </tr>
    </table>
</body>
</html>
```

```css
table {
    border: 2px solid black;
    width: 50%;
    text-align: center;
    transition: background-color 0.5s ease;
}

table:hover {
    background-color: greenyellow;
}
```

2. Apply different visibility by an element (visibility: hidden, visible, collapse) and use different types of display for an element (display: none, inline, block, contents, list-item)

```html
<> VisibilityandDisplay.html ×        #  VisibilityandDisplay.css

2. CSS Page Adjustments > <> VisibilityandDisplay.html > ...
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <link rel="stylesheet" href="VisibilityandDisplay.css">
5    </head>
6    <body>
7        <div class="visible">I am visible</div>
8        <div class="hidden">I am hidden</div>
9        <div class="collapse">I may collapse (works in table rows)</div>
10
11       <div class="none">Display: none</div>
12       <span class="inline">Display: inline</span>
13       <div class="block">Display: block</div>
14       <div class="contents"><p>This uses display: contents</p></div>
15       <li class="list-item">Display: list-item</li>
16   </body>
17   </html>
18
```

```css
<> VisibilityandDisplay.html        #  VisibilityandDisplay.css ×

2. CSS Page Adjustments > # VisibilityandDisplay.css > .visible
1    .visible {
2        visibility: visible;
3    }
4
5    .hidden {
6        visibility: hidden;
7    }
8
9    .collapse {
10       visibility: collapse;
11   }
12
13   /* Display properties */
14   .none {
15       display: none;
16   }
17
18   .inline {
19       display: inline;
20       background-color: █yellow;
21   }
22
23   .block {
24       display: block;
25       background-color: ▧lightblue;
26   }
27
```

```css
.contents {
    display: contents;
    background-color: █pink;
}

.list-item {
    display: list-item;
}
```

I am visible

Display: inline
Display: block

This uses display: contents

- Display: list-item

3. A long page which should have two links "click to go to bottom of page" and "click to go to top of page" . Also set their scroll-behavior to scroll smoothly.

```
2. CSS Page Adjustments > <> Smoothscroll.html > ...
1    <!DOCTYPE html>
2  ∨ <html>
3  ∨ <head>
4       <link rel="stylesheet" href="Smoothscroll.css">
5    </head>
6  ∨ <body>
7        <a href="#bottom">Click to go to bottom of page</a>
8
9        <div style="height: 1500px;"></div> <!-- Creates long scroll -->
10
11 ∨     <div id="bottom">
12           <a href="#top">Click to go to top of page</a>
13       </div>
14   </body>
15   </html>
16
```

```
2. CSS Page Adjustments > # Smoothscroll.css > ⚡ html
1    html {
2        scroll-behavior: smooth;
3    }
4
```

[Click to go to bottom of page](#)

[Click to go to top of page](#)

---

4. Add padding and margin with different size and understand the difference between them.

```
2. CSS Page Adjustments > <> PaddingMargin.html > ...
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <link rel="stylesheet" href="PaddingMargin.css">
5    </head>
6    <body>
7        <div class="padding-box">Padding Box</div>
8        <div class="margin-box">Margin Box</div>
9    </body>
10   </html>
11
```

```
2. CSS Page Adjustments > # PaddingMargin.css > .padding-box
1    .padding-box {
2        background-color: ■lightgreen;
3        padding: 30px;
4        border: 2px solid □black;
5    }
6
7    .margin-box {
8        background-color: ■lightcoral;
9        margin: 30px;
10       border: 2px solid □black;
11   }
12
```

Padding Box

Margin Box
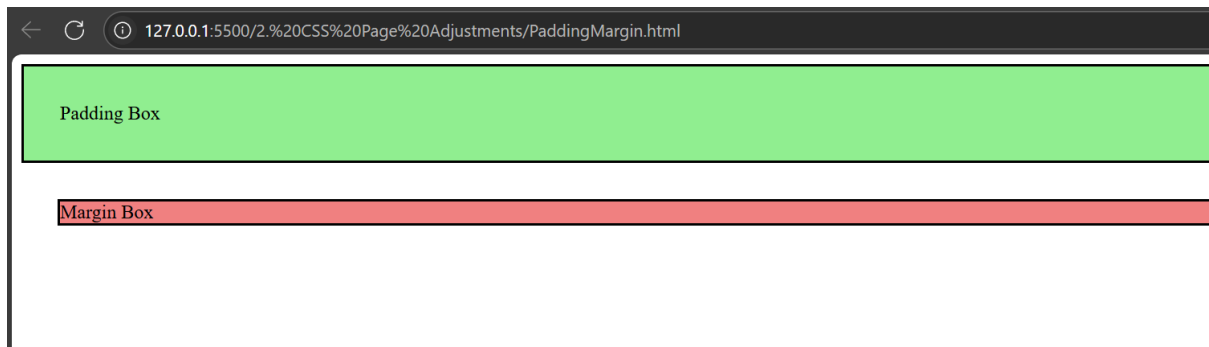
5.A page with multiple background images for an webpage or element and define their adjustable sizes.


```html
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="multipleBackground.css">
</head>
<body>
    <div class="multi-bg">
        This element has multiple background images.
    </div>
</body>
</html>
```

```css
.multi-bg {
    width: 400px;
    height: 300px;
    padding: 20px;
    color: white;
    font-weight: bold;

    background-image: url('https://via.placeholder.com/150/FF0000'),
        url('https://via.placeholder.com/100/0000FF');

    background-repeat: no-repeat, no-repeat;
    background-position: left top, right bottom;
    background-size: 150px 150px, 100px 100px;
    background-color: gray;
}
```


This element has multiple background images.
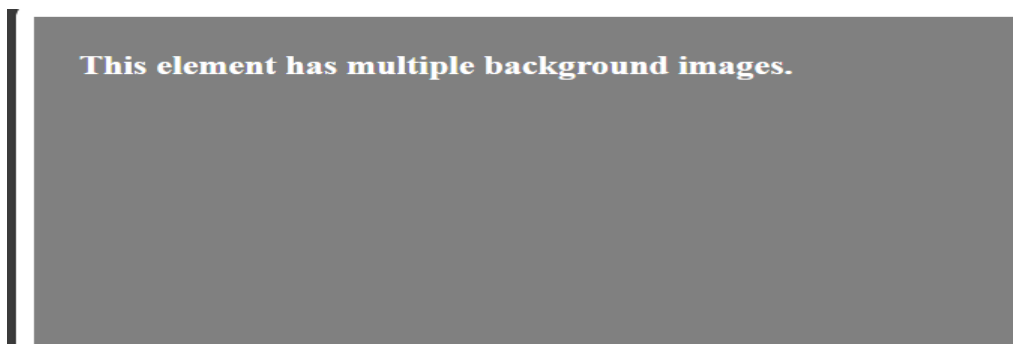
3.Semantic Elements

1. Develop a web page with non-semantic elements div and span

```html
1    <!DOCTYPE html>
2    <html>
3    <head>
4        <title>Non-Semantic Elements Example</title>
5        <style>
6            .header { background-color: ■lightblue; padding: 10px; }
7            .menu { background-color: ■lightgray; padding: 10px; }
8            .content { padding: 10px; }
9            .footer { background-color: ■lightblue; padding: 10px; }
10       </style>
11   </head>
12   <body>
13
14       <div class="header">
15           <span style="font-size: 24px;">My Website</span>
16       </div>
17
18       <div class="menu">
19           <span>Home</span> | <span>About</span> | <span>Contact</span>
20       </div>
21
22       <div class="content">
23           <span>Welcome to our website. This is the main content section.</span>
24       </div>
25
26       <div class="footer">
27           <span>© 2025 My Website</span>
28       </div>
```

```html
<div class="content">
    <span>Welcome to our website. This is the main content section.</span>
</div>

<div class="footer">
    <span>© 2025 My Website</span>
</div>

</body>
</html>
```

My Website

Home | About | Contact

Welcome to our website. This is the main content section.

© 2025 My Website

2. Develop a web page with the semantic elements form, table and article

```html
<!DOCTYPE html>
<html>
<head>
    <title>Semantic Elements Example</title>
</head>
<body>

    <article>
        <h2>News Article</h2>
        <p>This article discusses the latest web development trends.</p>
    </article>

    <h2>Contact Form</h2>
    <form>
        <label for="name">Name:</label>
        <input type="text" id="name" name="name"><br><br>

        <label for="email">Email:</label>
        <input type="email" id="email" name="email"><br><br>

        <input type="submit" value="Submit">
    </form>

    <h2>Student Grades Table</h2>
    <table border="1">
        <tr>
            <th>Name</th>
            <th>Subject</th>
            <th>Grade</th>
```

```html
    <h2>Student Grades Table</h2>
    <table border="1">
        <tr>
            <th>Name</th>
            <th>Subject</th>
            <th>Grade</th>
        </tr>
        <tr>
            <td>Alice</td>
            <td>Math</td>
            <td>A</td>
        </tr>
        <tr>
            <td>Bob</td>
            <td>Science</td>
            <td>B</td>
        </tr>
    </table>

</body>
</html>
```

News Article

This article discusses the latest web development trends.

Contact Form

Name: [_____]

Email: [_____]

[Submit]

Student Grades Table

Name	Subject	Grade
Alice	Math	A
Bob	Science	B

3. Use all the HTML5 tags and develop a web page article, aside, figcaption, figure,footer,header, hgroup,mark,nav, section,time

```
<> Semantictags.html  ×
3.Semantics > <> Semantictags.html > ...
   1    <!DOCTYPE html>
   2    <html>
   3    <head>
   4        <title>HTML5 Semantic Tags Example</title>
   5    </head>
   6    <body>
   7
   8    <header>
   9        <hgroup>
  10            <h1>My Blog</h1>
  11            <h2>Thoughts and Writings</h2>
  12        </hgroup>
  13    </header>
  14
  15    <nav>
  16        <a href="#">Home</a> |
  17        <a href="#">Articles</a> |
  18        <a href="#">Contact</a>
  19    </nav>
  20
  21    <section>
  22        <article>
  23            <header>
  24                <h2>Post Title</h2>
  25                <time datetime="2025-05-27">May 27, 2025</time>
  26            </header>
  27            <p>This is the content of the blog post. It uses modern semantic tags in HTML5.</p>
  28            <figure>
  29                <img src="https://via.placeholder.com/150" alt="Placeholder image">
```

```
  27            <p>This is the content of the blog post. It uses modern semantic tags in HTML5.</p>
  28            <figure>
  29                <img src="https://via.placeholder.com/150" alt="Placeholder image">
  30                <figcaption>This is a caption for the image.</figcaption>
  31            </figure>
  32            <p>Highlighted text: <mark>important note</mark></p>
  33        </article>
  34
  35        <aside>
  36            <h3>Related Posts</h3>
  37            <ul>
  38                <li><a href="#">Understanding HTML5</a></li>
  39                <li><a href="#">CSS Basics</a></li>
  40            </ul>
  41        </aside>
  42    </section>
  43
  44    <footer>
  45        <p>© 2025 My Blog</p>
  46    </footer>
  47
  48    </body>
  49    </html>
  50
```
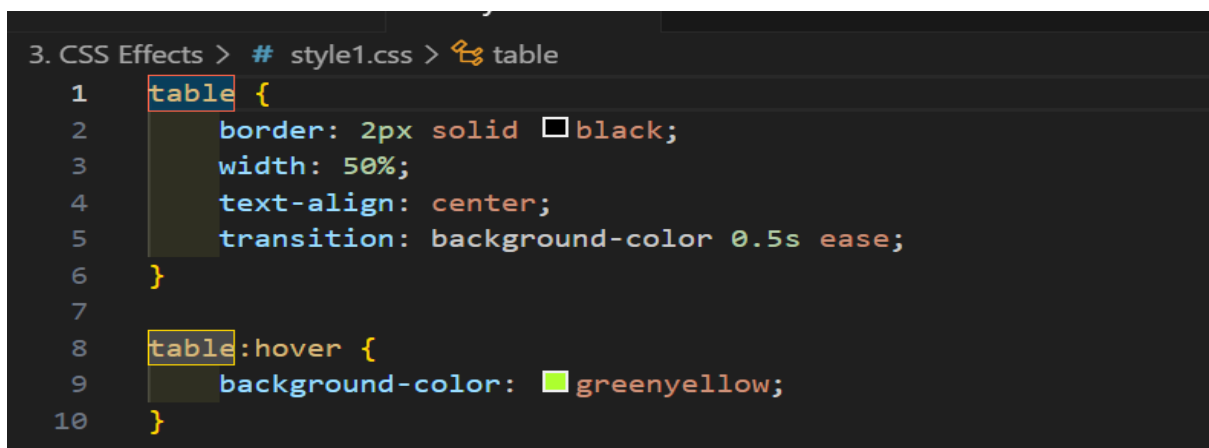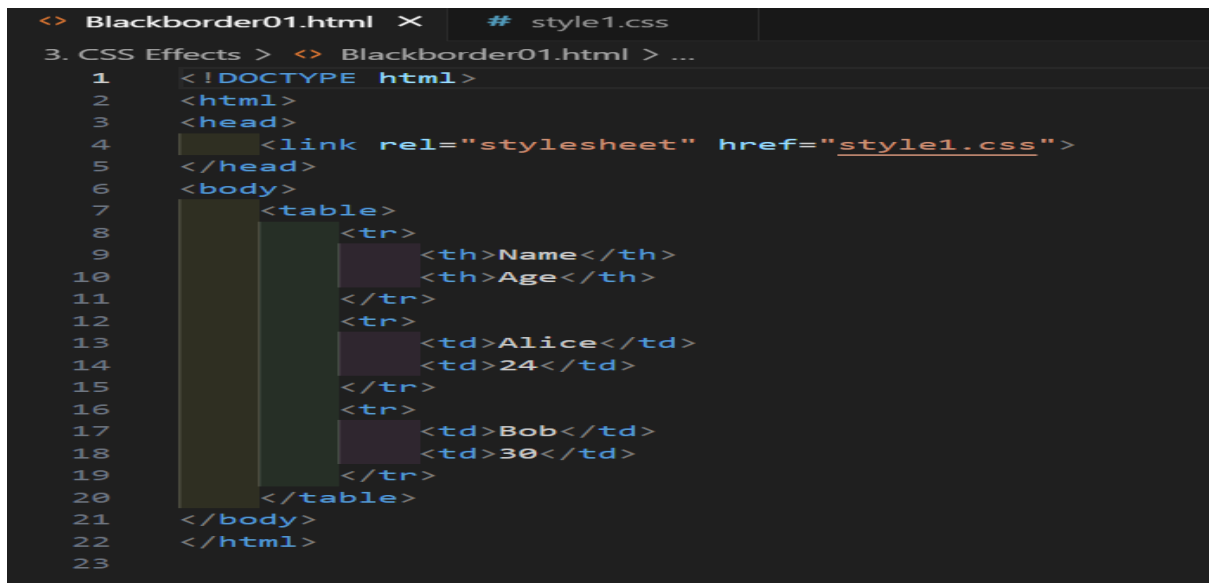
My Blog

Thoughts and Writings

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

Post Title

May 27, 2025

This is the content of the blog post. It uses modern semantic tags in HTML5.

Placeholder image
This is a caption for the image.

Highlighted text: important note

Related Posts

- [Understanding HTML5](#)
- [CSS Basics](#)

© 2025 My Blog

3.CSS Effects

1. Apply CSS shadow effects like for image box and hover a cursor.

```html
Blackborder01.html ×          # style1.css

3. CSS Effects > <> Blackborder01.html > ...
1   <!DOCTYPE html>
2   <html>
3   <head>
4       <link rel="stylesheet" href="style1.css">
5   </head>
6   <body>
7       <table>
8           <tr>
9               <th>Name</th>
10              <th>Age</th>
11          </tr>
12          <tr>
13              <td>Alice</td>
14              <td>24</td>
15          </tr>
16          <tr>
17              <td>Bob</td>
18              <td>30</td>
19          </tr>
20      </table>
21  </body>
22  </html>
23
```

```css
3. CSS Effects > # style1.css > table
1   table {
2       border: 2px solid ☐black;
3       width: 50%;
4       text-align: center;
5       transition: background-color 0.5s ease;
6   }
7
8   table:hover {
9       background-color: ▮greenyellow;
10  }
11
```

Name	Age
Alice	24
Bob	30

2. Use CSS animations (name,duration,iteration-count & delay) and paginations(Hoverable,with and without spaces).

```html
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="style2.css">
</head>
<body>
    <div class="animate-box">Animated Box</div>

    <div class="pagination">
        <a href="#">1</a>
        <a href="#">2</a>
        <a href="#">3</a>
    </div>

    <br>

    <div class="pagination spaced">
        <a href="#">1</a>
        <a href="#">2</a>
        <a href="#">3</a>
    </div>
</body>
</html>
```

```css
/* Animation */
@keyframes slideIn {
    0% { transform: translateX(-100px); opacity: 0; }
    100% { transform: translateX(0); opacity: 1; }
}

.animate-box {
    width: 200px;
    height: 100px;
    background-color: lightblue;
    animation-name: slideIn;
    animation-duration: 2s;
    animation-iteration-count: 2;
    animation-delay: 1s;
    margin-bottom: 20px;
}

/* Pagination (no space) */
.pagination a {
    padding: 10px 15px;
    background-color: lightgray;
    text-decoration: none;
    margin: 0;
    border: 1px solid #ccc;
}

.pagination a:hover {
    background-color: gray;
    color: white;
```
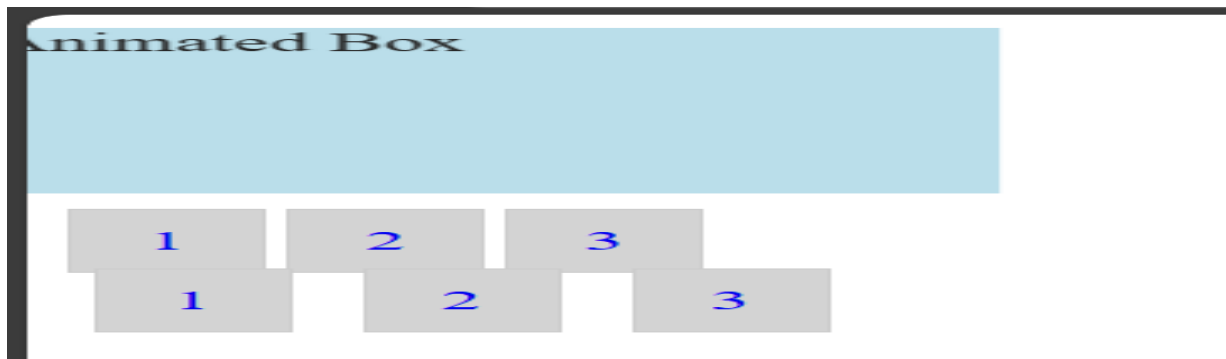
3. Add positions to CSS block (static, relative, fixed, absolute and sticky).


```html
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="style3.css">
</head>
<body>
    <div class="static-box">Static</div>
    <div class="relative-box">Relative</div>
    <div class="fixed-box">Fixed</div>
    <div class="absolute-box">Absolute</div>
    <div class="sticky-box">Sticky (Scroll down)</div>

    <div style="height: 1000px;">Scroll Area</div>
</body>
</html>
```

```css
.static-box {
    position: static;
    background-color: lightcoral;
    padding: 10px;
}

.relative-box {
    position: relative;
    top: 10px;
    left: 20px;
    background-color: lightgreen;
    padding: 10px;
}

.fixed-box {
    position: fixed;
    top: 0;
    right: 0;
    background-color: orange;
    padding: 10px;
}

.absolute-box {
    position: absolute;
    top: 200px;
    left: 100px;
    background-color: skyblue;
    padding: 10px;
}
```

4. Handling Overflow using scroll.

```html
<!DOCTYPE html>
<html>
<head>
    <link rel="stylesheet" href="style4.css">
</head>
<body>
    <div class="scroll-box">
        Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor,
        dignissim sit amet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam.
        Maecenas ligula massa, varius a, semper congue, euismod non, mi.
    </div>
</body>
</html>
```

```css
.scroll-box {
    width: 300px;
    height: 100px;
    border: 1px solid black;
    overflow: scroll;
    padding: 10px;
}
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed non risus. Suspendisse lectus tortor, dignissim sit amet, adipiscing nec, ultricies sed, dolor. Cras elementum ultrices diam. Maecenas ligula massa,

5.Adding Opacity to a image

```
3. CSS Effects > <> opacity05.html > ⊘ html > ⊘ body > ⊘ img.transparent-img
  1   <!DOCTYPE html>
  2   <html>
  3   <head>
  4     <link rel="stylesheet" href="style5.css">
  5   </head>
  6   <body>
  7     <img src="https://static.vecteezy.com/system/resources/previews/013/951/373/large_2x/
        awesome-nature-landscape-beautiful-scene-with-high-tatra-mountain-peaks-stones-in-mountain-lake-calm-lake-water-r
        eflection-colorful-sunset-sky-amazing-nature-background-autumn-adventure-hiking-photo.jpg"
        class="transparent-img" alt="Transparent Image" height="150">
  8   </body>
  9   </html>
 10
```

```
<>  opacity05.html          #  style5.css   ✕

3. CSS Effects >  #  style5.css > ...
  1      .transparent-img {
  2          opacity: 0.6;
  3          transition: opacity 0.3s;
  4      }
  5
  6      .transparent-img:hover {
  7          opacity: 1; /* Full visibility on hover */
  8      }
  9
```

4.CSS Compatibility

1. Create a table and apply table-layout as fixed and none

```html
<!-- table.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Table Layout</title>
    <link rel="stylesheet" href="table.css">
</head>
<body>
    <h2>Table Layout: Fixed</h2>
    <table class="fixed-layout">
        <tr><th>Name</th><th>Age</th><th>City</th></tr>
        <tr><td>John</td><td>25</td><td>New York</td></tr>
        <tr><td>Alice</td><td>30</td><td>Los Angeles</td></tr>
    </table>

    <h2>Table Layout: Auto (None)</h2>
    <table class="auto-layout">
        <tr><th>Name</th><th>Age</th><th>City</th></tr>
        <tr><td>Jonathan Doe</td><td>25</td><td>New York City</td></tr>
        <tr><td>Alice Smith</td><td>30</td><td>Los Angeles</td></tr>
    </table>
</body>
</html>
```

```css
/* table.css */
table {
    width: 100%;
    border-collapse: collapse;
    margin-bottom: 20px;
}
th, td {
    border: 1px solid #444;
    padding: 8px;
    text-align: left;
}
.fixed-layout {
    table-layout: fixed;
}
.auto-layout {
    table-layout: auto;
}
```

Table Layout: Fixed

Name	Age	City
John	25	New York
Alice	30	Los Angeles

Table Layout: Auto (None)

Name	Age	City
Jonathan Doe	25	New York City
Alice Smith	30	Los Angeles

2. Create a list and change its list-style-type

```html
<!-- list.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>List Style</title>
    <link rel="stylesheet" href="list.css">
</head>
<body>
    <h2>Custom List Styles</h2>
    <ul class="circle-list">
        <li>HTML</li>
        <li>CSS</li>
        <li>JavaScript</li>
    </ul>

    <ol class="roman-list">
        <li>Step One</li>
        <li>Step Two</li>
        <li>Step Three</li>
    </ol>
</body>
</html>
```

```css
/* list.css */
.circle-list {
    list-style-type: circle;
}

.roman-list {
    list-style-type: upper-roman;
}
```

Custom List Styles

- ○ HTML
- ○ CSS
- ○ JavaScript

- I. Step One
- II. Step Two
- III. Step Three

3. Create a grid with of different types

```html
<!-- grid.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>CSS Grid Example</title>
    <link rel="stylesheet" href="grid.css">
</head>
<body>
    <h2>CSS Grid Layout</h2>
    <div class="grid-container">
        <div class="item">1</div>
        <div class="item">2</div>
        <div class="item">3</div>
        <div class="item">4</div>
        <div class="item">5</div>
        <div class="item">6</div>
    </div>
</body>
</html>
```

```css
/* grid.css */
.grid-container {
  display: grid;
  grid-template-columns: 1fr 1fr 1fr; /* 3 equal columns */
  gap: 10px;
  padding: 20px;
}

.item {
  background-color: #4CAF50;
  color: white;
  padding: 20px;
  text-align: center;
  font-size: 20px;
}
```

CSS Grid Layout

1	2	3
4	5	6

4. Create a hero image

```html
<!-- hero.html -->
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Hero Image</title>
    <link rel="stylesheet" href="hero.css">
</head>
<body>
    <div class="hero-image">
        <div class="hero-text">
            <h1>Welcome to My Website</h1>
            <p>Your success begins here.</p>
        </div>
    </div>
</body>
</html>
```

```css
/* hero.css */
.hero-image {
    background-image: url('https://vignette2.wikia.nocookie.net/sonicpokemon/images/7/77/Pikachu.png/revision/latest?cb=20120603213349'); /* Replace with your image */
    height: 100vh;
    background-position: center;
    background-repeat: no-repeat;
    background-size: cover;
    position: relative;
}

.hero-text {
    text-align: center;
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%, -50%);
    color: white;
}
```
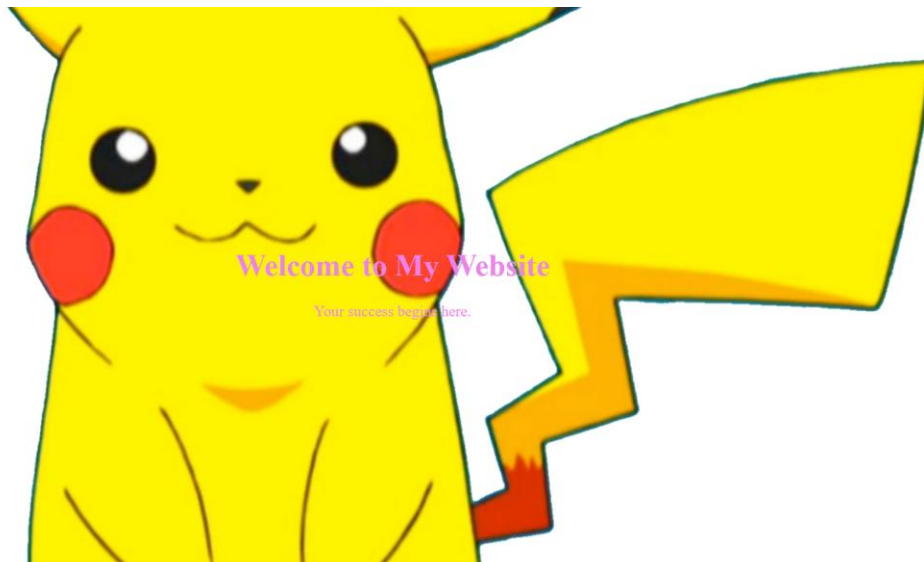
5.Write a program of view-port for grid, media queries, image and video.

```html
1    <!-- responsive.html -->
2    <!DOCTYPE html>
3    <html lang="en">
4    <head>
5      <meta charset="UTF-8">
6      <title>Responsive Design</title>
7      <meta name="viewport" content="width=device-width, initial-scale=1.0">
8      <link rel="stylesheet" href="responsive.css">
9    </head>
10   <body>
11     <div class="responsive-grid">
12       <img src="https://images-na.ssl-images-amazon.com/images/S/pv-target-images/
         b13b5087bd1f2c83f256d68fd175a4e19c655e1f933c2e73f4675045fc8cf01a._RI_TTW_.jpg" alt="Sample"
         class="responsive-img">
13       <video controls class="responsive-video">
14         <source src="sample.mp4" type="video/mp4">
15         Your browser does not support the video tag.
16       </video>
17     </div>
18   </body>
19   </html>
20
```

4.CSS Compatibility > # responsive.css > ...

```css
1    /* responsive.css */
2    body {
3      margin: 0;
4      font-family: Arial, sans-serif;
5    }
6
7    .responsive-grid {
8      display: grid;
9      grid-template-columns: 1fr 1fr;
10     gap: 20px;
11     padding: 20px;
12   }
13
14   .responsive-img, .responsive-video {
15     width: 100%;
16     height: auto;
17   }
18
19   /* Media Queries */
20   @media screen and (max-width: 768px) {
21     .responsive-grid {
22       grid-template-columns: 1fr;
23     }
24   }
25
```