

S. No	Observation	Date	Marks	Signature
1.	Personal Webpage			
2.	Clickable Image			
3.	Navigation Bar			
4.	Student Grades			
5.	Product Info Table			
6.	Employee List			
7.	Navigation			
8.	Document with folder			
9.	Three column layout			

1. Basic HTML Concepts:

Scenario-1: you are tasked with creating a simple personal webpage that includes your name, a brief bio and a link to your favourite webpage.

Question: How would you structure this HTML page? Include elements for a heading, a paragraph for the bio and a hyperlink to your favourite website.

HTML Structure:

```
<!DOCTYPE html>
<html>
<head>
  <title> personal webpage </title>
</head>
<body>
  <h1> Name: </h1>
  <p> C.Janani </p> <br>
  <h1> Bio: </h1>
  <p> This is Janani, studying 3rd year CSE in Saveetha
      School of Engineering </p> <br>
  <p> visit my favourite website : </p>
    <a href="https://www.instagram.com/" target="_main"> Link </a>
```

```
</body>
</html>
```

Scenario-2:

you need to create a webpage with an image that acts as a clickable link to another website.

Question:

How would you code this HTML? Describe the tags and attributes you would use.

HTML Structure:

```
<!DOCTYPE html>
<html>
<head>
    <title> Clickable Image Link </title>
</head>
<body>
    <a href="https://www.google.com" target="_blank">
        
    </a>
</body>
</html>
```

Scenario - 3:

You have been asked to create a navigation bar at the top of your webpage with links to "Home", "About" and "Contact" pages.

Question:

How would you structure this using an unordered list in HTML?

HTML structure:

```
<!DOCTYPE html>
<html>
<head>
    <title> Webpage with Navigation Bar </title>
</head>
<body>
    <ul>
        <li><a href="index.html"> Home </a></li>
        <li><a href="about.html"> About </a></li>
        <li><a href="contact.html"> Contact </a></li>
    </ul>
</body>
</html>
```

2. HTML T

Scenario - 4:

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columns for

should be

Question:

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header span

HTML Str

```
<!DOCTYPE html>
<html>
<head>
    <title>
        <h1> Navigation Bar </h1>
    </title>
</head>
<body>
    <table border="1">
        <tr>
            <td> Home </td>
            <td> About </td>
            <td> Contact </td>
        </tr>
    </table>
</body>
</html>
```

2. HTML Tables:

Scenario - 4:

You are designing a webpage that displays student grades in a tabular format. Each row should represent a student with columns for the student ID, name and grade. The first row should be a header row.

Question:

How would you create a table in HTML? Include the header row and atleast two rows of data.

HTML Structure:

```
<!DOCTYPE html>
<html>
<head>
    <title> Student Grades </title>
</head>
<body>
    <table border = "2">
        <tr>
            <th> Student ID </th>
            <th> Name </th>
            <th> Grade </th>
        </tr>
        <tr>
            <td> 1958 </td>
            <td> Akshay </td>
            <td> S </td>
        </tr>
        <tr>
            <td> 1970 </td>
            <td> Krishna </td>
            <td> B </td>
        </tr>
    </table>
</body>
</html>
```

```
</table>  
</body>  
</html>
```

Scenario - 5:
you need to create a table that displays product information. The table should include merged cells for the product name (spanning across two columns) and separate columns for the price and quantity.

Question:
How could you use the colspan attribute to achieve this layout in HTML?

HTML structure:

```
<!DOCTYPE html>  
<html>  
<head>  
<title> Tables </title>  
</head>  
<body>  
<table border="1">  
<tr>  
<th colspan="2" rowspan="2">Product Name</th>  
<th> Price </th>  
<th> Quantity </th>  
</tr>  
<tr>  
<td colspan="2" rowspan="2">Product A</td>  
<td> 1000 </td>  
<td> 1 </td>  
</tr>
```

```
<tr>  
<td> c  
<td>  
<td>  
<td>  
</tr>
```

```
</table>  
</body>  
</html>
```

Scenario - 6:

you employeed by across multiple each department

Question:
How could you use colspan in HTML?

HTML structure:

```
<!DOCTYPE html>  
<html>  
<head>  
<title> Employees </title>  
</head>  
<body>  
<table border="1">  
<tr>  
<th> Employee ID </th>  
<th> Name </th>  
<th> Department </th>
```

Employee

Name

Department

```
<tr>
<td colspan="2" > Product B </td>
<td> 1500 </td>
<td> 2 </td>

<tr>
<td colspan="2" rowspan="2" style="text-align: center;">Q1 Q2
```

Scenario - 6:

You are required to create a table that lists employees by department. The department name should span across multiple rows with employee names listed in rows beneath each department name.

Question:
How would you structure this table using the rowspan attribute in HTML?

HTML structure:

```
<!DOCTYPE html>
<html>
<head>
<title> Tables List </title>
</head>
<body>
<table border="1">
<tr>
<th> Department </th>
<th> Employee Name </th>
</tr>
<tr>
<td rowspan="3" style="text-align: center;">Sales
```

```

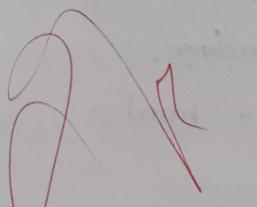
<td> John </td>
</tr>
<tr>
<td> Abhay </td>
</tr>
<tr>
<td> Sanju </td>
</tr>
<tr>
<td rowspan="2">Marketing </td>
<td> Siva </td>
</tr>
<tr>
<td> Sai </td>
</tr>
</table>
</body>
</html>

```

3. HTML Frames:

Scenario-7:

Your task is to create a webpage with a left navigation pane and a main content area. The left pane should contain links to different sections. Clicking on these links should update the content in the main area without reloading the entire page.



Question:

How would you implement this using frames in HTML?

Describe how you would set up the frameset and link behaviour.

HTML structure:

```
<!DOCTYPE html>
```

```

<html>
<head>
<title> Webpage
</head>
<frameset>
<frame>
<frame>
</frameset>
</html>

```

Scenario-8:

You are creating a document in contact info.

Question:

How would you achieve this using frames?

HTML structure:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<tit
```

```
</head>
```

```
<fram
```

```
</fram
```

```
</fr
```

```
</html>
```

```
<html>
<head>
<title> Webpage with frames </title>
</head>
<frameset cols="20%, 80%">
    <frame src="navigation.html" name="nav. frame">
    <frame src="content.html" name="main frame">
</frameset>
</html>
```

Scenario - 8:
you are tasked to design a webpage that displays a document in the top half of the window and a footer with contact information in bottom half.

Question:
How would you divide the window using frames to achieve layout? Explain how you would set up the rows in the frameset.

HTML structure:

```
<!DOCTYPE html>
<html>
<head>
<title> Frames </title>
</head>
<frameset rows="50%, 50%">
    <frame src="document.html" name="top frame">
    <frame src="footer.html" name="bottom frame">
</frameset>
</html>
```

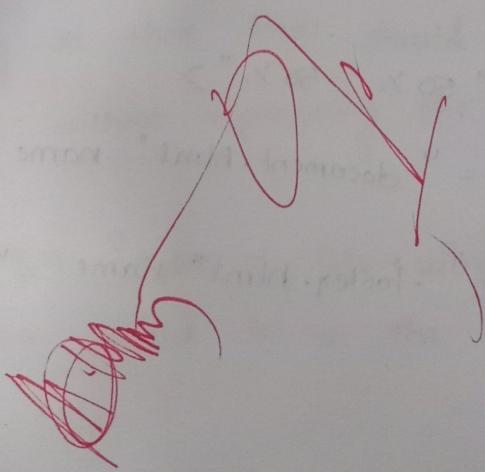
Scenario - 9:
you need to create a webpage with three columns, a left nav menu, a center content area and a right sidebar from additional information. The center content area should be resizable, but the left and right columns should have fixed widths.

Question:

How would you structure the frameset in HTML to create this layout? Describe the attributes you would use for each frame.

HTML structure:

```
<!DOCTYPE html>
<html>
  <head>
    <title> Frames </title>
  </head>
  <frameset cols = "20%, *, 20%">
    <frame src = "nav.html" name = "left frame" scrolling = "auto"
           noresize>
    <frame src = "content.html" name = "center frame" scrolling = "auto">
    <frame src = "sidebar.html" name = "right frame" scrolling = "auto"
           noresize>
  </frameset>
</html>
```



Scenario - 1

You're building a one-page online resume for yourself. This page is standalone, meaning it won't be linked to any other pages on the web. You want to style it with a specific color scheme, font family, and layouts, but you want to keep everything within HTML.

Question:- How would you apply styles to this resume directly within the HTML file.

HTML Structure:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
                                         initial-scale=1.0">

    <title> My Resume </title>
    <style>
        body {
            font-family: Arial, sans-serif;
            color: #333;
            background-color: #f0f0f0;
            margin: 0;
            padding: 0;
        }
        container {
            width: 80%;
            margin: auto;
            background: #fff;
            padding: 20px;
            border-radius: 8px;
            box-shadow: 0 0;
        }
        h1, h2, h3 {
```

```

color: #007BFF;
}
P {
line-height: 1.6;
}
header {
text-align: center;
margin-bottom: 20px;
}
section {
margin-bottom: 20px;
}

```

</style>

<head>

<body>

<div class = "container">

<div class = "header">

<h1> Meena </h1>

<p> Web developer / designer </p>

</div>

<div class = "section">

<h2> about me </h2>

<p> Passionate web developer with experience </p>

</div>

<div class = "section">

<h2> skills </h2>

 HTML, CSS, Javascript

</div>

<div class = "section">

<h2> experience </h2>

<p> previous roles & accomplishments in web development and design </p>

</div>

<div class = "body">

<p> contact : </p>

</div>

</div>

</body>

</html>

Output:

M

Passionate

Experienc

SKILLS:

Contact

Scenario - 2:

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Question:-

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HTML S

<! Doc

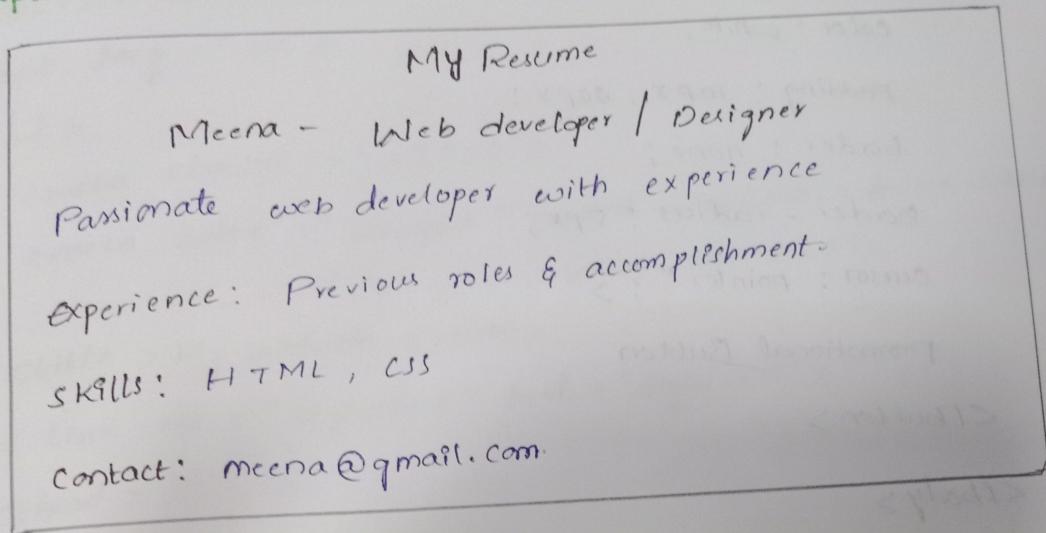
<html

<head>

<

```
</div>
<div class : "footer">
<p> contact : meena@gmail.com </p>
</div>
</div>
</body>
</html>
```

Output:



Scenario-2:

You are taken with making quick adjustments to a web page that already has a fully developed external style sheet. The marketing team requests that a single button on the home page be highlighted with different background.

Question:- How would you apply a specific background color to this button without altering external style sheet.

HTML Structure:

```
<!DOCTYPE html>
```

```
<html lang = "en">
```

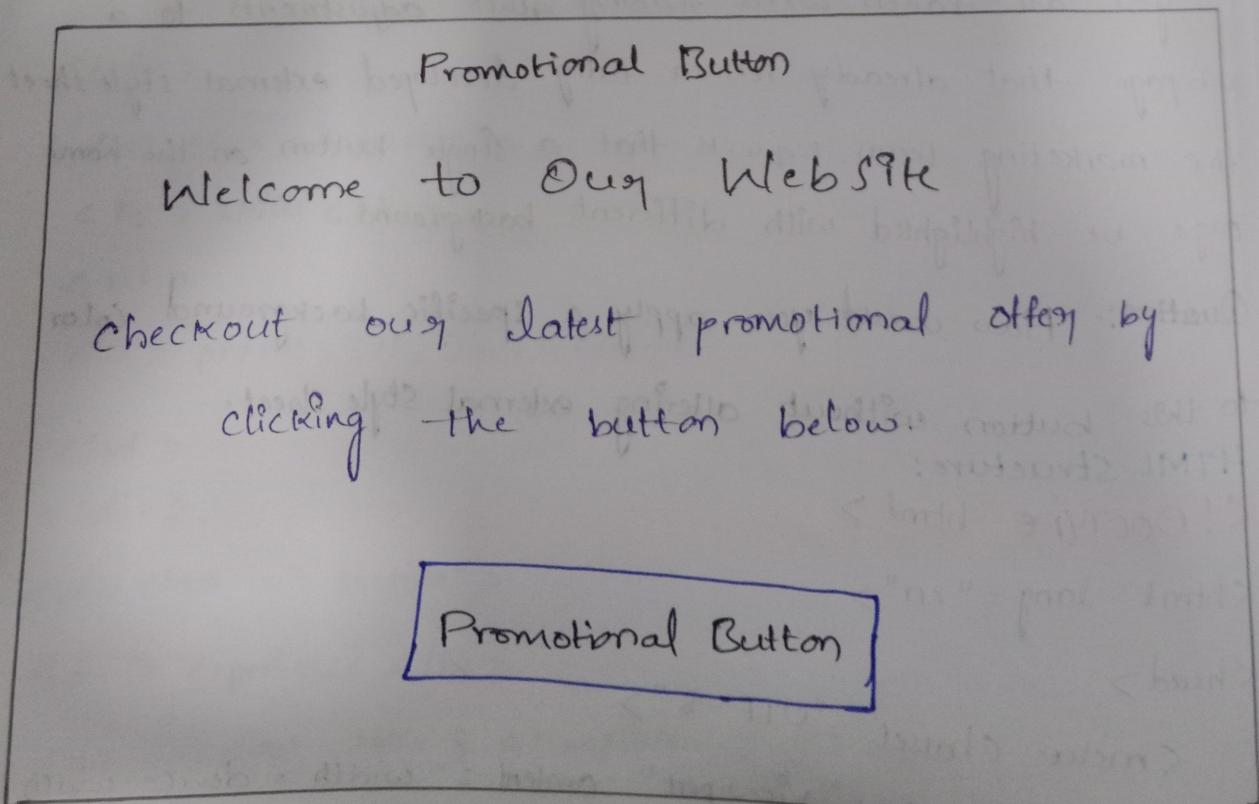
```
<head>
```

```
<meta charset = "UTF-8">
```

```
<meta name = "viewport" content = "width = device-width ,
```

```
?initial-scale=1.0">
<title> Promotional Button </title>
</head>
<body>
<h1> welcome to our website! </h1>
<p> Checkout our latest promotional offer by clicking  
the button below: </p>
<button style: "background-color: #ff5733;  
color: white;  
padding: 10px, 20px;  
border: none;  
border-radius: 5px;  
cursor: pointer;">  
Promotional Button
</button>
</body>
</html>
```

Output:



scenario - 3:
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always already

Question:- How

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HTML structur

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<html lan

<head>

<meta>

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CSS

Scenario - 3:

You are working on a large website, with multiple pages, all of which need to have a consistent design. The site always already uses an external.css file for styling.

Question:- How would you efficiently apply new styles across all pages of website.

HTML structure:

```
<!DOCTYPE html>
<html lang = "en">
<head>
    <meta charset = "UTF-8">
    <meta name = "viewport" content = "width = device-width,
        initial-scale = 1.0">
    <title> My website </title>
    <link rel = "stylesheet" href = "styles.css">
</head>
<body>
    <header>
        <h1> Welcome to my website </h1>
    </header>
    <div class = "container">
        <p> This is a sample paragraph on home page </p>
        <button> Click me </button>
    </div>
</body>
</html>
```

CSS code:

```
root {
    -- primary-color: #3498db;
    -- secondary-color: #2ecc71;
```

```
-- text-color: #333;  
-- background-color: #f0f0f0;  
-- font-primary: 'Roboto', sans-serif;  
  
body {  
    font-family: var(--font-primary);  
    background-color: var(--background-color);  
    color: var(--text-color);  
    margin: 0;  
    padding: 20px;  
}  
  
header {  
    text-align: center;  
    padding: 20px;  
    background-color: var(--primary-color);  
    color: white;  
}  
  
header h1 {  
    font-family: var(--font-secondary);  
    font-size: 2.5cm;  
    margin: 0;  
}  
  
header p {  
    font-size: 1.2cm;  
}  
  
section {  
    margin: 20px 0;  
}  
  
button {  
    padding: 10px, 20px;  
    border: none;  
    border-radius: 5px;  
}
```

Output:

```
cursor : pointer ;  
}  
.btn - primary {  
background - color : var ( -- primary - color );  
color : white ;  
}  
.btn - secondary {  
background - color : var ( -- secondary - color );  
color : white ;  
}
```

Output:

