

Index Page:-

S.No	Date	Title	Sign	Total Marks
1	25/8	Simple personal webpage		10
2	25/8	Image as a clickable link		10
3	26/8	Navigation Bar		10
4	26/8	Std grades table		10
5	27/8	Merged cells		10
6	27/8	Employee table		10
7	28/8	frames with Navigation		10
8	28/8	frames with document		10
9	29/8	Three column frame set		10
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11	4/9	Design blog layout		10
12	5/9	real time stock price viewers		10
13	5/9	online shopping cart system		10
14	6/9	developing a local restaurant		10
15	6/9	create a user registration		10
16	7/9	A blog website with dynamic		10
17	7/9	University portal		

Completed

(Signature)

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 favorite website.

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

HTML Structure:

```
<!DOCTYPE html>
<html>
<head>
  <title> Personal webpage </title>
</head>
<body>
  <h1> Name: </h1>
  <p> G. Harshini </p> <br>
  <h1> Bio: </h1>
  <p> This is Harshini, studying cse 3rd year in  
Savitri school of Engineering </p> <br>
  <p> Visit my favorite website:  
  <a href = "http://www.facebook.com"  
    target = "_main" > Link </a>
  </p>
</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 = "http://www.google.com" target = "_blank">
```

```
<img src = "Image.jfif" alt = "Image" width = "100px" height = "100px" />
```

```
</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>
```

index.html :

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Index </title>
```

```
</head>
```

```
<body>
```

```
<h1> Index page </h1>
```

```
<p> This is an index  
page </p>
```

```
</body>
```

```
</html>
```

about.html :

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> About </title>
```

```
</head>
```

```
<body>
```

```
<h1> About Page </h1>
```

```
<p> Welcome to the about  
page! </p>
```

```
</body>
```

```
</html>
```


Contact.html:

```
<!DOCTYPE html>
<html>
<head>
  <title> Contact </title>
</head>
<body>
  <h1> Contact Page: </h1>
  <p> Welcome to contact page! If any queries
    please contact gunjiharshmi@gmail.com </p>
</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 header row.

Question: How would you create a table in HTML? Include the header row and at least 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> 1001 </td>

<td> Siva </td>

<td> S </td>

</tr>

<tr>

<td> 1002 </td>

<td> Sai </td>

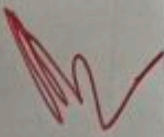
<td> A </td>

</tr>

</table>

</body>

</html>



Student ID	Name	Grade
1001	Siva	S
1002	Sai	A

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 would 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"> product Name </th>
```

```
<th> price </th>
```

```
<th> quantity </th>
```

```
</tr>
```

```
<tr>
```

```
<td colspan="2"> Product A </td>
```

```
<td> 1200 </td>
```

```
<td> 1 </td>
```

```
</tr>
```

```
<tr>
```

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

```
<td> 1500 </td>
```

2	1200	1001
A	1200	1001
		1001


```

<td> 2 </td>
</tr>
</table>
</body>
</html>

```

Product Name	Price	Quantity
Product A	1200	1
Product B	1500	2

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 QA </title>
</head>
<body>
  <table border="1">

```


<tr>

<th> Department </th>

<th> Employee Name </th>

</tr>

<tr>

<td rowspan="3"> Sales </td>

<td> John </td>

</tr>

<tr>

<td> Abay </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>



Department	Employee Name
Sales	John
	Abay
	Sanju
Marketing	Siva
	Sai

3 HTML Frames :

Scenario #:

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 and contain links to different sections of site, and clicking on these links should update the content in the main area without refreshing 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 with frames </title>
```

```
</head>
```

```
<frameset cols = "20%, 80%">
```

```
<frame src = "navigation.html" name = "nav frame">
```

```
<frame src = "content.html" name = "main frame">
```

```
</frame set>
```

```
</html>
```

Navigation.html:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Navigation </title>
```


<body>

Section 1

Section 2

Section 3

</body>

</html>

content.html :

<!DOCTYPE html>

<html>

<head>

<title> Main Content </title>

</head>

<body>

<h1> Welcome </h1>

<p> This is content area. click on links in nav
page to load content here! </p>

</body>

</html>

Section 1.html :

```
<!DOCTYPE html>
<html>
<head>
  <title> Section 1 </title>
</head>
<body>
  <h1> Section 1 </h1>
  <p> This is Section 1 Page </p>
</body>
</html>
```

Section 2.html :

```
<!DOCTYPE html>
<html>
<head>
  <title> Section 2 </title>
</head>
<body>
  <h1> Section 2 </h1>
  <p> This is Section 2
    Page </p>
</body>
</html>
```

Section 3.html :

```
<!DOCTYPE html>
<html>
<head>
  <title> Section 3 </title>
</head>
<body>
  <h1> Section 3 </h1>
  <p> This is Section 3 Page </p>
</body>
</html>
```

- Section 1
- Section 2
- Section 3

Welcome

this is content area, click links on new
page to load content here!

If we click on Section 1:

<u>Section 1</u>	Section 1
<u>Section 2</u>	this is section 1 page
<u>Section 3</u>	

If we click on Section 2:

<u>Section 1</u>	Section 2
<u>Section 2</u>	this is section 2 page
<u>Section 3</u>	

If we click on Section 3:

<u>Section 1</u>	Section 3
<u>Section 2</u>	this is section 3 page
<u>Section 3</u>	

Scenario 1:

You are asked 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 = "topframe">
  <frame src = "footer.html" name = "bottomframe">
</frameset>
</html>
```

document.html

```
<!DOCTYPE html>
<html>
<head>
  <title> Document </title>
</head>
```


<body>

<h1> Document Page </h1>

<p> This is the content of document " </p>

</body>

</html>

footer.html :

<!DOCTYPE html>

<html>

<head>

<title> Footer </title>

</head>

<body>

<h1> Contact Information </h1>

<p> Email : harshini@gmail.com </p>

<p> Phone : 8143813764 </p>

<p> Address : Chennai </p>

</body>

</html>

Document Page

This is the content of document

Contact Information

Email : harshini@gmail.com

Phone : 8143813764

Address : Chennai

Scenario - 9:

You need to create a webpage with three columns: a left nav menu, a centre content area, and a right side bar for additional information. The centre 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
```

```
<frame src = "content.html" name = "centre frame" noresize>
```

```
<frame src = "sidebar.html" name = "right frame" scrolling = auto
```

```
</frameset>
```

```
</html>
```

content.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Content </title>
```

```
</head>
```



```
</body>
```

```
<h1> Welcome to content area </h1>
```

```
<p> It is a content area in centre of page </p>
```

```
</body>
```

```
</html>
```

Nav.html:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Navigation </title>
```

```
</head>
```

```
<body>
```

```
<h1> Navigation Menu </h1>
```

```
<ul>
```

```
<li> <a href = "Sec 1. html" target = "centre frame">
```

```
Section 1 </a> </li>
```

```
<li> <a href = "Sec 2. html" target = "centre frame">
```

```
Section 2 </a> </li>
```

```
</ul>
```

```
</body>
```

```
</html>
```

Sidebar.html:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Sidebar </title>
```

```
</head>
```


<body>

<h1> Additional Information </h1>

<p> "This is right sidebar to display additional info" >

</body>

</html>

<ul style="list-style-type: none">• Section 1• Section 2	<p>Welcome</p> <p>this is content page</p>	<p>Additional Information</p> <p>This is right sidebar to display additional information</p>
---	--	--

CSS:

Document level CSS:-

Scenario: 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 colour scheme, font family and layout, but you want to keep everything within this single HTML file to make it easy to share and modify.

```
<!doctype html>
```

```
<html>
```

```
<head>
```

```
<title> Resume </title>
```

```
<style>
```

```
body {
```

```
font-family: 'Arial';
```

```
color: 'black';
```

```
background-color: 'white';
```

```
}
```

```
h1, h2, h3 {
```

```
color: 'blue';
```

```
}
```

```
p {
```

```
color: 'purple';
```

```
line-height: 1.6;
```

```
}
```

```
• header {
```

```
text-align: center;
```

```
color: 'red';
```

```
}
```


.contactInfo {

color: black;

text-align: center;

}

.section {

margin-bottom: 20px;

}

</style>

</head>

<body>

<div class = "section">

<h1> Your Name </h1>

<h2> Web Developer </h2>

</div>

<div class = "contact info">

<p> Email :

Your email id .com </p>

<p> Phone : 934241634 </p>

<p> LinkedIn : LinkedIn.com

</p>

</div>

<div class = "section">

<h2> Experience </h2>

<p> Details of your Experience </p>

</div>

<div class = "section">

<h2> Education </h2>

<p> Details of your Education </p>

</div>

</body>

</html>

Inline CSS:

Scenario: You are tasked to make quick adjustments to a web page that already has a fully developed external stylesheet. The marketing team requests a single button on the home page be highlighted with different background colour just for a promotional event happening today.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Home Page </title>
```

```
</head> <link href="stylesheet" rel="stylesheet">
```

```
<body>
```

```
<h1> Welcome to our website </h1>
```

```
<p> Check out our latest products & offers </p>
```

```
<button style="background-color: blue;
colour: white;"> Special
Promotion </button>
```

```
</body>
```

```
</html>
```

External CSS:

Scenario: How would you apply a specific background colour to this?

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

Studying, but now you need to update the colour scheme and typography site-wide:

<!DOCTYPE html>

<head>

<head>

<title> Home Page </title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<header>

<h1> Welcome to our Website </h1>

<nav>

 Home

 About

 Contact

</nav>

</header>

<main>

<section>

<h2> Our latest Offers </h2>

<p> Discover our new collections here </p>

</section>

<section>

<h2> Why choose us? </h2>

<section> <p> We provide best quality products </p>

</main>

</footer>

<p> 2024 Your Company © </p>

<p> All rights are reserved </p>

</footer>

</body>

</html>

Style.css :-

body

{

background-color : "white";

color : black;

font-family : Arial

font-size : 16px;

h1 h2 {

font-size : 36px;

color : blue;

text-align : center;

}

p {

font-size : 28px;

color : black;

}

header {

text-align : center;

}

footer {

background-color: green
text-align: center;

}

