

Basic HTML Concepts:-

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

Question: How would you structure this HTML page & include elements - for heading a paragraph for a bio, and a hyperlink to your favourite website.

HTML structure:-

```
<!DOCTYPE html>
<html>
  <head>
    <title> Personal Webpage </title>
  </head>
  <body>
    <h1> Name: </h1>
    <p> H. Manasa </p> <br>
    <h1> Bio: </h1>
    <p> This is H. Manasa, studying 3rd year CSE
       in SSE, SIMATS </p> <br>
    <p> Visit my favourite website: <a href=
      "https://www.netflix.com">
      target = "_main" > Link </a>
    </p>
  </body>
</html>
```

Scenario-2: You need to create a webpage with an image that acts a clickable link to another website.

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

HTML structure:-

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

2.1.2 Describe

2.1.2.1

2.1.2.1.1

2.1.2.1.1.1

2.1.2.1.1.1.1

```
<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>
```

2.1.2.1.1.1.1

```
</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 query then  
    contact harshic@gmail.com </p>
```

```
</body>
```

```
</html>
```

HTML Tables:-

Scenario-4: You are designing a webpage that displays student grades in a tabular format. Each row should represent a student, with cols 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 h
```

```
<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> Sunny </td>
  <td> 101 </td>
  <td> S </td>
</tr>
<tr>
  <td> Madhuri </td>
  <td> 103 </td>
  <td> A </td>
</tr>

```

```

<table>
  <thead>
    <tr>
      <th> Student ID </th>
      <th> Name </th>
      <th> Grade </th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td> 101 </td>
      <td> Sunny </td>
      <td> S </td>
    </tr>
    <tr>
      <td> 103 </td>
      <td> Madhuri </td>
      <td> A </td>
    </tr>
  </tbody>
</table>

```

ge that displays
w should repr-
dent ID, Name
heada row.
in HTML?
ows of data.

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

```

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

Scenario-61-
 You are required to create a table
 that lists employees by departments. The department

ent 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>
<table border="1">
    <tr>
        <th> Department </th>
        <th> Employee Name </th>
    </tr>
    <tr>
        <td rowspan="3" style="text-align: center;">SMITH
```

lth>

d>

d>

l>

a table

The department

Department

Sales

Marketing

Employee Name

Bhanu

Sai

Sunny
Manu.

HTML frames:-

Scenario-#1: 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 of sites and clicking on these links should update the 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 frames and links behaviour.

HTML Structure:-

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

Scenario-#2: You are displaying a document and a footer with frames to achieve this. Set up the rows in the HTML structure:-

```
<!DOCTYPE html>
<html>
<head>
    <title> Frame Example </title>
</head>
<frameset rows = "100px, 100px, 100px">
    <frame src = "header.html" />
    <frame src = "body.html" />
    <frame src = "footer.html" />
</frameset>
</html>
```

Document P:

This is the

Contact Info

email: suresh@xyz.com

phone: +91-9876543210

Address:

Scenario-#3:

columns of a

and a right

center con

Scenario-8: 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.

Questions: 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 Page

This is the content of document

Contact Information

email: sunnyd914@gmail.com

phone: 7702139840

Address: Anantapur

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 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">
    <frame src="content.html" name="center frame"
           scrolling="auto">
    <frame src="sidebar.html" name="right frame"
           scrolling="auto" noresize>
  </frameset>
</html>
```