

Supreme

NAME: SaiTejaSree.k

STD :

SEC :

ROLL NO.:

SUB\_

PDF

## 25/8 BASIC HTML concepts :-

### Scenario 1 :-

You are tasked with creating a simple personal webpage that include your name, brief bio and a website.

**Question :-** How would you structure this HTML page? include elements for a heading a paragraph for the Bio :-

```
<html>
<head>
  <title> Personal Webpage </title>
</head>
<body>
  <h1> Name : </h1>
  <p> sai </p> <br>
  <h1> Bio : </h1>
  <p> This is sai studying 3rd year </p> <br>
  <p> visit my website <a href = https://www.
instagram.com "> </a>
</p>
</body>
</html>
```

O/P

Personal Webpage  
This is sai studying 3<sup>rd</sup> year  
visit my website

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

```
<html>
<head>
  <title> clickable image </title>
</head>
<body>
  <a href = "https://www.google.com">
    img src = "image.jfif" alt = "Image"
  </a>
  width = "use"
```



</body>  
</html>

O/P

clickable image  
Image : <http://www.example.com>

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.

<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>

O/P

Name	age	Occupation
Sai	19	Student

## 2). HTML Tables

Scenario -4 :- You are designing a webpage that displays student grades in a tabular format.

<html>  
<head>  
    <title> Student grades </title>  
</head>  
<body>  
    <table border = "2">  
        <tr>  
            <th> student Id </th>  
            <th> Name </th>  
            <th> Grade </th>  
        </tr>

```

<td> 1001 </td>
<td> Sai </td>
<td> S </td>

```

```

</tr>
</table>
</body>

```

```

</html>

```

OUTPUT

Student ID	Name	grade
1001	Sai	S

Scenario -5 :- You need to create a table that displays product information. The table should include merged cells from these products.

```

<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>
      <td> 2 </td>
    </tr>

```

</table>

</body>

</html>

OUTPUT

ProductName	Price	Quantity
A	1200	1
B	1500	2

Scenario 6 :- you are required to create a table that lists employee details by department.

<html>

<head>

<title> table list </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 rowspan = "2"> Marketing </td>

<td> Siva </td>

</tr>

<tr>

<td> Sai </td>

</tr>



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

Department	employeeName
Sales	John
Marketing	Siva Sai

### HTML Frames :-

Scenario 1 :- You are tasked to create a webpage with a left navigation pane and a main content area. How do you implement these using frames in 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 = "mainframe">
</frameset>
</html>

```

### Navigation .html :-

```

<html>
<head>
  <title> Navigation </title>
</head>
<body>
  <ul>
    <li> <a href = "section 1.html" target
      = "mainframe">
      Section 1 </a> </li>

```

```
<li><a href = "section 2.html" target = "mainframe"
Section 2 </a> </li>
```

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

### Content.html :-

```
<html>
<head>
```

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

```
</head>
```

```
<body>
```

```
<h1> Welcome </h1>
```

```
<p> This is content area </p>
```

```
</body>
```

```
</html>
```

### Section1.html :-

```
<html>
<head>
```

```
<title> Section 1 </title>
```

```
</head>
```

```
<body>
```

```
<h1> Section 1 </h1>
```

```
<p> this is section 1 page </p>
```

```
</body>
```

```
</html>
```

### Section2.html :-

```
<html>
```

```
<head>
```

```
<title> Section 2 </title>
```

```
</head>
```

```
<body>
```

```
<h1> Section 2 </h1>
```

```
<p> This Section 2 page </p>
```

```
</body>
```



### OUTPUT

Section 1  
Section 2

Welcome  
this is content area.

scenario 8 :- You are asked to design a webpage that displays a document in the top half of the window.

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

### OUTPUT

Document Page  
This is content of Document.

scenario 9 :- You need to create a webpage with three columns a left nav means, a centre content area. How would you structure the frameset HTML to create this layout.

```
<html>
<head>
  <title> Frames </title>
</head>
<frameset cols = "20%, *, 20%">
  <frame src = "nav.html" name = "leftFrame"
    scrolling = auto ">
  <frame src = "content.html" name =
    "Centre frame" scrolling = "auto">
  <frame src = "sidebar.html" name =
    "rightframe ">
</frameset>
</html>
```



### Content.html :-

<html>

<head>

<title> Content </title>

</head>

<body>

<h1> Welcome to Content Area </h1>

<p> resize content area in centre of  
the page </p>

</body>

</html>

### sidebar.html :-

<html>

<head>

<title> Sidebar </title>

</head>

<body>

<h2> Additional info </h2>

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

</body>

</html>

### OUTPUT :-

Section1	Welcome	Additional info.
Section2	This is content page	sidebar to display additional info

## Analytical :-

- 1) University course registration system using XHTML and DHTML. The system should manage tasks like available courses, registering students, displaying student registrations etc ...

```
<html>
```

```
<html xmlns : "http://www.w3.org/xhtml">
```

```
<head>
```

```
<title> Course Registration </title>
```

```
<style>
```

```
table, th, td { border : 1px solid black ;
```

```
padding : 10px ; }
```

```
</style>
```

```
<script type = "text/javascript">
```

```
function addCourse() {
```

```
var name = document . getElementById  
('courseName') . value ;
```

```
var code = document . getElementById ('course  
code')
```

```
var instructor = document . value ;  
getElementById  
('courseInstructor') . value ;
```

```
if (name && code && instructor)
```

```
{  
var table = document . getElementById  
('courseTable') ;
```

```
var row = table . insertRow (-1) ;
```

```
row . insertCell (0) . innerHTML = name ;
```

```
row . insertCell (1) . innerHTML = code ;
```

```
row . insertCell (2) . innerHTML = instructor ;
```

```
3  
3
```

```
</script>
```

```
</head>
```



```

<body>
  <h1>course Registration </h1>
  <input type = "text" id = "CourseName"
    placeholder = "Course Name" />
  <input type = "text" id = "CourseCode" place
    holder = "Course Code" />
  <input type = "text" id = "CourseInstructor"
    placeholder = "Instructor" />
  <button onclick = 'add course()'> Add Course
</button>

<table id = "courseTable">
  <tr> <th> CourseName </th> <th> Course
    Code </th> <th> Instructor </th> </tr>
</table>
</body>
</html>

```

OUTPUT :-

## University Course Registration System

Course Code :

Course Name :

Add Course

Course Code	Course Name
ece 345	elec

2). Design a responsive blog layout using CSS. The layout using CSS. The layout should handle task such as creating a header, sidebar, main content area and footer. [Navigation Bar].

```

<html>
<head>
  <title> Blog Layout </title>
  <link rel = "stylesheet" href = "styles.css">
</head>
<body>
  <header>
    <h1> My Blog </h1>
    <nav>
      <a href = "#home"> Home </a>
      <a href = "#about"> About </a>
      <a href = "#blog"> Blog </a>
      <a href = "#contact"> Contact </a>
    </nav>
  </header>
  <div class = "container">
    <aside> Sidebar Content </aside>
    <main> Main Content Area </main>
  </div>
  <footer> &copy; ; 2024 My Blog </footer>
</body>
</html>

```

OUTPUT :-

My Blog			
Home	About	Blog	Contact
About Me Some information Categories C1 C2		Blog post "title" "Welcome"	



3). Implement a real time stock price viewer with AJAX. The system should fetch and display stock prices from a remote API. Use AJAX to make a request to stock price API and display the result on the page.

```
<html>
```

```
<head>
```

```
<title> Real time stock Price Viewer </title>
```

```
<style>
```

```
body {
```

```
font-family: Arial, sans-serif;
```

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

```
padding: 20px;
```

```
}
```

```
#stock-price {
```

```
font-size: 24px;
```

```
margin-top: 20px;
```

```
color: #333;
```

```
}
```

```
input [type="text"] {
```

```
padding: 10px;
```

```
margin-right: 10px;
```

```
}
```

```
button {
```

```
padding: 10px 20px;
```

```
}
```

```
</style>
```

```
<script>
```

```
function fetchStockPrice()
```

```
{
```

```
const companySymbol = document.getElementById('stock symbol').value;
```

```
if (!companySymbol) {
```

er using  
ay  
AJAX  
d

```
alert ("Please enter a stock symbol");  
return;
```

</title>

```
3  
const xhr = new XMLHttpRequest();  
xhr.open ("GET", apiUrl, true);  
xhr.onload = function() {  
    if (xhr.status === 200) {  
        const response = JSON.parse(xhr.responseText);  
        document.getElementById('stock-price').  
            innerHTML = 'Current price of ' + response.symbol + ' is ' + response.currentPrice;  
    } else {  
        document.getElementById('stock-price').  
            innerHTML = "Failed to fetch price";  
    }  
}
```

```
3;  
xhr.onerror = function() {  
    document.getElementById('stock-price').  
        innerHTML = "Error";  
};
```

```
xhr.send();
```

```
3  
setInterval(fetchStockPrice, 6000);
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1> Real time Price </h1>
```

```
<input type="text" id="stock-symbol" />
```

```
placeholder="enter stock symbol" />
```

```
<button onclick="fetchStockPrice()">
```

```
Fetch stock price </button>
```

```
<div id="stock-price"> stock price will  
appear </div>
```

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

getElementById



OUTPUT :-

Stock Price Viewer
Enter Stock Symbol : [AAPL]
Current Price of AAPL : \$ XXX.XX

- 4) Develop a shopping cart system using javascript. The system should handle tasks such as adding items to cart, removing items, updating quantities, calculating total price and uploading discounts.

```
let shoppingCart = [];  
function addItemCart (itemId, itemName,  
itemPrice, itemQuantity) {  
  const existingItem = shoppingCart.find  
    (item => item.id === itemId);  
  if (existingItem) {  
    existingItem.quantity += itemQuantity;  
    console.log('updated $ {itemName}');  
  } else {  
    const newItem = {  
      id: itemId;  
      name: itemName,  
      price: itemPrice,  
      quantity: itemQuantity  
    };  
    shoppingCart.push(newItem);  
    console.log('Added $ {itemName}');  
    updatedCartTotal();  
  }  
}
```

```
function updateCartTotal()
```

```
{  
  let totalPrice = 0;  
  shoppingCart.forEach (item => {  
    totalPrice += item.price * item.quantity;  
  });
```

```
  console.log('TotalPrice: $$ {totalPrice.to  
    Fixed(2)}');
```

```
}  
addItemToCart(1, "Laptop", 999.99, 1);  
addItemToCart(2, "smartPhone", 499.99, 2);  
addItemToCart(1, "Laptop", 999.99, 1);
```

OUTPUT :-

Shopping cart

Apple \$1.00 x 3  
[Remove Button]

Banana - \$0.50 x 5  
[Remove Button]

Total : \$5.50

Apply Discount [Button]

Enter Discount Code [input field].

- 5). Developing a website for a local restaurant.  
It should add menu items horizontally  
menu on smaller screens. Write HTML  
& CSS code to create this responsive  
navigation bar.

```
<html >
```

```
<head >
```

```
<title > Responsive Restaurant </title >
```

```
<link rel = "stylesheet" href = "styles.css">
```

```
</head>
```



```

<body>
  <nav class="navbar">
    <div class="logo">
      <h1> Restaurant </h1>

```

```

    <div>
      <ul class="nav-links" id="navlinks">
        <li><a href="#"> Home </a></li>
        <li><a href="#"> Menu </a></li>
        <li><a href="#"> About us </a></li>
        <li><a href="#"> Contact </a></li>
      </ul>
    </div>
    <div class="hamburger" id="hamburger">
      <span></span>
    </div>
  </nav>

```

```

  <script>
    const hamburger = document.getElementById('hamburger');
    const navlinks = document.getElementById('navlinks');

```

```

  hamburger.addEventListener('click', () => {
    navlinks.classList.toggle('active');
  });
</script>
</body>
</html>

```

```

CSS:-
* {
  margin: 0;
  padding: 0;
}
body {
  font-family: Arial;
}

```

67

```

.navbar {
  display: flex;
  justify-content: space-between;

```

```

  }
  .logo h1 {
    color: white;

```

```

  }
  .hamburger {
    display: none;
    cursor: pointer;

```

```

  }
  .hamburger span {
    background-color: white;
    width: 25px;
    height: 3px;

```

OUTPUT :- Responsive Restaurant

Home Menu Restaurant About Contact

Hamburger

b) User Registration form for a social networking website. The form should contain username, email, pwd. HTML code.

```

<html>

```

```

<head>

```

```

  <title> User Registration </title>

```

```

  <style>

```

```

    .error { color: red; }

```

```

    .form-group { margin-bottom: 15px; }

```

```

  </style>

```

```

</head>

```



```

<body>
  <form id = "registration">
    <div class = "form-group">
      <label for = "username"> Username:
      <input type = "text" id = "username"
        name = "username" required>
    </div>

```

```

    <div>
      <div class = "form-group">
        <label for = "email"> Email: </label>
        <input type = "text" id = "username">
        <span id = "email error" class = "error">

```

```

      </span>
    </div>
    <div class = "form-group">
      <label for = "pwd"> Password: </label>
      <input type = "password" id = "pwd" name =
        "pwd" required>
    </div>

```

```

    <button type = "submit"> Register
  </button>

```

```

</form>
<script>
  document.getElementById('reg form')
    .addEventListener('submit', function(event))

```

```

    {
      let isValid = true;
      const email = document.getElementById('email').value;
      const password = document.getElementById('pwd').value;

```

```

    }
  </script>

```

<body>  
</html>

OUTPUT :-

User Registration

username :   
user Id :   
phone No :   
password :