

Observation - 1

" Simple Personal web Page:

```

<!DOCTYPE html>

<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title> Image <a href="https://www.target website.com"></title>
  </head>
  <body>
    <a href="https://www.target website.com">
      <h1> your Name </h1>
      <p> This is a brief bio about yourself. </p>
      favorite website <br>
    </a>
  </body>
</html>

```

Output:- Your Name B.Prasanth

This is a brief bio about yourself Visit
my favorite website :- <https://www.example.com>

2. Image as a clickable Link:

```

<!DOCTYPE html>

<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title> Image Link </title>
  </head>
  <body>

```

1 >

a href = "https://www.target.com" >

image src = "/path/to/image.jpg".

<body>

<html>

Output:-

clickable image link.

?image: "https://www.example.com"

3

navigati on ba with unorder ed list:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title> navigation Bar </titles>

<head>

<body>

 home

 about

<body>

</html>

Output:-

Name	Age	Occupation
B.v.Prashanth	20	webdeveloper

4

student grade table:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title> student grade </titles>

<head>

<body>

<table border="1">

<tr>

<th> () </th>

<th> none </th>

<th> Grade </th>

<td>

<tr>

<td> 101 </td>

<td> Jane Smith </td>

<td> B </td>

<tr>

<table>

<tbody>

</tbody>

Student ID	Name	Grade
100 1	Alice	A
100 2	Bob	B

3

Product information Table with merged cells.

<!DOCTYPE html>

<html lang="en">

<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> \$ 100 </td>

<td> 50 </td>

</tr>

</table>

</body>

</html>

Product Name	Price	Quantity
A	1200	1
B	1500	2

Employee by Department Table with Rowspan:-

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title> Employee Table </title>

</head>

<body>

<table border="1">

<tr>

<th rowspan="2">Name

<th> Employee Name </th>

</tr>

<tr>

<td> John Doe </td>

</td>

</td>

<tr rowspan="3">Name

<td> Jane Smith </td>

<tr>

<td>

<td> Alice Johnson </td>

<tr>

<tr>

<tr>

7: frames with Navigation and Content areas.

<!DOCTYPE html>

<html lang="en">

 <head>

 <meta charset="UTF-8">

 <title> frame layout </title>

 <head>

 <foreset cols="20%, 80%">

 <frame src="navigation.html"

 <frame src="content.html"

 </foreset>

 </head>

Department	Employee
Sales	John
Marketing	Justin

8: frame with document and footer.

<!DOCTYPE html>

<html lang="en">

 <head>

 <meta charset="UTF-8">

 <title> frame layout </title>

<!head>

<frame set rows = "75%, 25%">

<frame src = "document.html">

<frame src = "footer.html">

<frameset>

<html>

Document page

This is content of document

footer page

This is content of footer.

Three column frame set:

<!DOCTYPE html>

<html lang = "en">

<head>

<meta charset = "UTF-8">

<title>

Three - column layout

<head>

<frame set cols = "200, 200">

<frame src = "left.html" name = "left">

<frame src = "center.html" name = "center">

<frame src = "right.html" name = "right">

</frame set>

</html>

Output:-

Section 1

Section 2

welcome
to webpage

Additional info

side bar to
display additional
info

analytical

1. Create a university course registration system using XHTML and DHTML. The system should manage tasks such as listing available courses, registering students, displaying student registrations and dynamically updating course availability.
- Design an XHTML page that lists all available courses using a table. Use DHTML to dynamically add rows to the table as new courses are added.

XHTML:-

```
<!DOCTYPE html PUBLIC >
<html xmlns="http://www.w3.org/1999/xhtml">
    <head>
        <title>University Course Registration System</title>
        <style type="text/css">
            table {
                width: 100%;
                border-collapse: collapse;
            }
            table, th, td {
                border: 1px solid black;
            }
            th, td {
                padding: 5px;
                text-align: left;
            }
        </style>
```

```
<script type="text/javascript">
function addcourse(){
    var courseName = document.getElementById("courseName");
    var courseCode = document.getElementById("courseCode").value;
    var courseInstructor = document.getElementById("courseInstructor").value
    if (courseName && courseCode && courseInstructor) {
        var table = document.getElementById("courseTable");
        var row = table.insertRow(-1);
        var cell1 = row.insertCell(0);
        var cell2 = row.insertCell(1);
        var cell3 = row.insertCell(2);
        cell1.innerHTML = courseName;
        cell2.innerHTML = courseCode;
        cell3.innerHTML = courseInstructor;
    } else {
        alert("Please fill in all fields");
    }
}
</script>
<head>
<body>
<h1>University course registration system </h1>
<h2>available course </h2>
<table id="courseTable">
<tr>
<th> course name </th>
<th> course code </th>
<th> instructor </th>
<tr>
<td>
```

</table>

<h2> add a new course </h2>

<form>

<label for="courseName"> course Name : </label>

<input type="text" id="courseName" name="courseName" value=""/>

<label for="courseCode"> course code : </label>

<input type="text" id="courseCode" name="courseCode" value=""/>

<table for="courseInstruction"> instruction : </table>

<input type="text" id="courseInstruction" name="instruction" value=""/>

</form>

<body>

<h1>

OutPut:

University course Registration

course Name

course

course name

course code

introduction to XML

X HTML 101

course code : X HTML 101
by Jane Doe

course code : X HTML 101

courseName

instructor

Introduction HTML

by Jane Doe

Add course

1 2 3 4 5 6
7 8 9 10 11 12

Q: Create an HTML page that include a header with a navigation bar. Use CSS to style the header and navigation bar. The navigation bar should have horizontal links that change color when hovered over.

A: HTML:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width,
    initial-scale=1.0">
  <title> Responsive Blog Layout </title>
  <link rel="stylesheet" href="style.css" >
</head>
<body>
  <header>
    <div class="logo"> My Blog </div>
    <nav>
      <ul class="nav-links">
        <li><a href="#"> Home </a></li>
        <li><a href="#"> About </a></li>
        <li><a href="#"> Contact </a></li>
      </ul>
    </nav>
  </header>
  <div class="container">
    <aside class="sidebar">
      <h2> Categories </h2>
    </aside>
```

< header

< main class="content">

< h1> Blog Post title </h1>

<p> welcome to my blog! This is where I write about topics </p>

</main>

</div>

</footer>

<p> © 2024 My Blog

</footer>

</body>

</html>

css :- CSS:-

{

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: Arial, sans-serif;

line-height: 1.6;

background-color: #f4f4f4;

}

header {

background-color: #333;

color: #fff;

padding: 10px;

text-align: center;

}

```
header - logo {  
    font-size: 24px;  
}  
  
container {  
    display: flex;  
    margin: 20px;  
    flex-wrap: wrap;  
}
```

```
side bar {  
    background-color: #addc;  
    padding: 15px;  
    flex: 1 1 250px;  
    background-color: #fff;  
}
```

```
footer {  
    background-color: #333;  
    color: #fff;  
}
```

```
text-align: center;  
padding: 10px 0;  
margin-top: 20px;  
}
```

```
side bar {  
    margin-right: 0;  
    margin-bottom: 20px;  
}
```

```
Output -
```

My Blog				
Home	About	Blog	Contact	
About me				
some information				
about me	category	recent post		
category 1		title	welcome to my	
category 2			blog	

3. Create an HTML page with a button to fetch the current stock price for a predefined company. Use AJAX to make a request to a stock price API and display the result on the page.

HTML:-

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
                                initial-scale=1.0">
<title> Real-time stock price viewer </title>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div class="container">
<h1> Stock Price Viewer </h1>
<div id="stock-info">
<p> Company : <span id="company-name"></span>
</div>
<button id="fetch-price-btn">
<input type="text" id="stock-symbol" />
</div>
<script src="script.js"></script>
</body>
</html>
```

CSS:-

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

```
background-color: #f4f4f4;
display: flex;
justify-content: center;
align-items: center;
height: 100vh;
margin: 0;
}
.container {
background-color: white;
padding: 20px;
border-radius: 10px;
box-shadow: 0 0 10px 0px;
text-align: center;
}
#stock-info p {
font-size: 18px;
margin: 10px 0;
}
#tech-price-btn {
margin-top: 15px;
padding: 10px 20px;
font-size: 16px;
color: white;
border: none;
border-radius: 5px;
}

```

```
border: 1px solid #ccc;
```

```
border-radius: 8px;
```

```
}
```

Java Script:-

```
document.getelementbyid('fetch-price-btn')
```

```
const symbol = document.getelementbyid('stock-symbol')
```

```
fetch stock price(symbol);
```

```
)
```

```
function fetch stock price(symbol){
```

```
const apikey = "your-AP-key";
```

```
const url = "https://www.alphavantage.com/v1";
```

```
const xhr = new XMLHttpRequest();
```

```
xhr.open('Get', url, true);
```

```
xhr.onload = function(){
```

```
if(xhr.status == 200){
```

```
const response = JSON.parse(xhr.responseText);
```

```
const time series = response['Time Series']
```

```
const latestTime = Object.keys(timeSeries)[0];
```

```
const latestPrice = timeSeries[latestTime];
```

```
else{
```

```
console.error("Error fetching stock price");
```

```
}
```

```
};
```

```
xhr.onreadystatechange = function(){
```

```
console.error('Request failed');
```

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

```
}
```

OUTPUT:-

Stock Price Viewer

Enter stock symbol : [AAPL] [Get Stock Price]

Current price of AAPL: \$ XXX.XXX.

4. Develop an Online shopping cart system using Java Script.
The System should handle tasks. The system should handle tasks such as adding items, updating qualities, calculating total price and applying discounts. Implement a Java Script function to add items to the shopping cart. The function should take the item id, name, price update the cart according to ensure that its quality is updated.

HTML:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <title> Shopping Cart </title>
    <style>
      cart {
        border: 1px solid black;
        padding: 10px;
        width: 300px;
      }
      item {
        margin-bottom: 10px;
      }
    </style>
  </head>
```

```
<body>  
<div id="cart">  
    <h2> shopping cart </h2>  
    <div id="cart-items"></div>  
    <div id="total-price"> total: $000</div>  
    <button onclick="applyDiscount()"> Apply discount</button>  
    <input type="text" id="discount-code">  
    </div>  
<script src="cart.js"></script>  
</body>  
</html>
```

Java script

```
const cart = {};  
function addItem(id, name, price, quantity)  
{  
    if (cart[id])  
    {  
        cart[id].quality += quantity;  
    } else {  
        cart[id] = {name, price, quality};  
    }  
    updateCartUI();  
}  
function removeItem(id){  
    delete cart[id];  
    updateCartUI();  
}
```

```
    updateCartUI();  
}  
  
function calculateTotal() {  
    let total = 0;  
    for (let id in cart) {  
        total += cart[id].price * cart[id].quality;  
    }  
    return total.toFixed(2);  
}  
function applyDiscount() {  
    const discountCode = document.getElementById("discount-code")  
        .value;  
    let total = calculateTotal();  
    document.getElementById("total-price").innerHTML =  
        total;  
    function updateCartUI() {  
        const cartItemDiv = document.getElementById("cart-item");  
        cartItemsDiv.innerHTML = "  
            for (let id in cart) {  
                itemDiv.className = "item";  
                itemDiv.innerHTML = "  
                    cartItemsDiv.appendChild(child(itemDiv));  
            }  
            document.getElementById("total-price").innerHTML =  
                total;  
            total = calculateTotal();  
        }  
    }  
}
```

3

```
addItem('1', 'Apple', 1.00, 3);
```

```
addItem('2', 'Banana', 0.50, 5);
```

Output:

Shopping Cart

Apple - \$ 1.00 x 3

[Remove Button]

Banana - \$ 0.50 x 5

[Remove Button]

Total : \$ 8.00

Apply Discount [Button]

Enter discount code [Input Field]

5. write the html and css code to create this responsive navigation bar. Ensure the menu items are displayed correctly on all screen size and that the hambergers can be expanded on mobile devices.

HTML:

```
<!DOCTYPE html>
```

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

```
  <head>
```

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

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
<title> Restaurant </title>
<link rel="stylesheet" href="style.css">
<head>
<body>
<nav>

<div class="logo"> Restaurant </div>
<div class="menu-toggle" id="mobile-menu">
<span class="bar"></span>
<span class="bar"></span>
<span class="bar"></span>
</div>

<ul class="nav-links" id="nav-links">
<li><a href="#"> Home </a></li>
<li><a href="#"> menu </a></li>
<li><a href="#"> Contact </a></li>
</ul>
</nav>
<script>
const menuToggle = document.getElementById("mobile-menu");
const navLinks = document.getElementById("nav-links");
</script>
</body>
</html>
```

(CSS):

```
body {
  font-family: Arial, sans-serif;
}
nav {
```

```
display: flex;  
justify-content: space-between;  
align-items: center;  
padding: 18px;  
background-color: #333;  
color: white;  
} 300px 200px 10px 10px  
logo { width: 200px; height: 100px;  
font-size: 1.5rem;  
font-weight: bold;  
}  
font-size: 1.5rem;  
font-size-weight: bold;  
}  
nav-links { width: 100px; height: 100px;  
display: flex;  
list-style: none;  
}  
nav-links li { width: 100px; height: 100px;  
margin: 10px;  
}  
nav-links li a { width: 100px; height: 100px;  
text-decoration: none;  
color: white;  
font-size: 1rem;
```

```
    ::-link a:hover {  
        color: #000;  
    }  
  
    menu-boggle {  
        display: none;  
        flex-direction: column;  
        cursor: pointer;  
    }  
  
    ::-link a {  
        font-size: 1.5rem;  
    }  
}
```

Output:

Restaurant name	menu	contact
SREE RESTAURANT	idle, vada Pongal	8074865048 9652958813
sangeetha Ray	meal, Non veg veg	9845678901

- Q. Write a HTML code for the registration form and the JavaScript code to validate the input field before submission make sure your validation code provides feedback.

HTML code:-

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

<title> registration form </title>

<style> registration

```
body {  
    font-family: sans-serif;  
    font-size: 14px;  
    margin: 0;  
    padding: 0;  
}  
  
form {  
    width: 300px;  
    margin: 50px auto;  
    padding: 20px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
}  
  
label {  
    display: block;  
    margin-bottom: 5px;  
}
```

```
input {  
    width: 100%;  
    padding: 10px;  
    margin-bottom: 10px;  
    color: #ccc;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
}
```

```
input[type="text"] {  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    padding: 10px;  
    margin-bottom: 10px;  
}
```

```
input[type="email"] {  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    padding: 10px;  
    margin-bottom: 10px;  
}
```

```
input[type="password"] {  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    padding: 10px;  
    margin-bottom: 10px;  
}
```

```
input[type="checkbox"] {  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    padding: 10px;  
    margin-bottom: 10px;  
}
```

```
input[type="radio"] {  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    padding: 10px;  
    margin-bottom: 10px;  
}
```

```
input[type="submit"] {  
    background-color: #ccc;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    padding: 10px;  
    margin-bottom: 10px;  
}
```

```
input[type="button"] {  
    background-color: #ccc;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    padding: 10px;  
    margin-bottom: 10px;  
}
```

```
</style>
```

```
<head>
```

```
<body>
```

```
<form id="registration_form">
  <h2> Register </h2>
  <div class="username"> Username </label>
    <input type="text" id="username" name="username" />
  <div class="email"> Email </label>
    <input type="email" id="email" name="email" />
  <button type="submit" id="submit" name="submit"> Register </button>
</div>
</form>
<script src="validation.js"></script>
</body>
</html>
```

Output:-

Input:

Username : John Doe

Email : John Doe @ example.com

Password : Password 123

Conform Password : Password 123

Output:-

Succes message appears

Registration successful.