

PRACTICAL EXPERIMENTS

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COURSE CODE : ITA0212 – WEB TECHNOLOGY

1. A web page is created using HTML, consists of various divisions which includes, head, body and footer parts. Write a program which includes various tags used inside the header tag.

CODE :

```
<!DOCTYPE html>

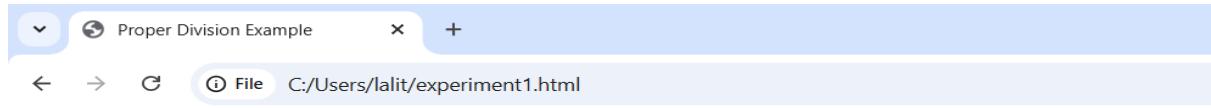
<html lang="en">
<head>
<title>Proper Division Example</title>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
<body>

<!-- Header Division -->
<div id="header">
<h1>Website Header</h1>
<p>Logo | Navigation | Title</p>
</div>

<!-- Body / Content Division -->
<div id="content">
<h2>Main Content</h2>
<p>This section contains the body content of the web page.</p>
</div>
```

```
<!-- Footer Division -->
<div id="footer">
    <p>© 2025 All Rights Reserved</p>
</div>
</body>
</html>
```

OUTPUT :



Website Header

Logo | Navigation | Title

Main Content

This section contains the body content of the web page.

© 2025 All Rights Reserved

2. Write a Javascript program to get the numbers from the user and display only the nearest odd numbers.

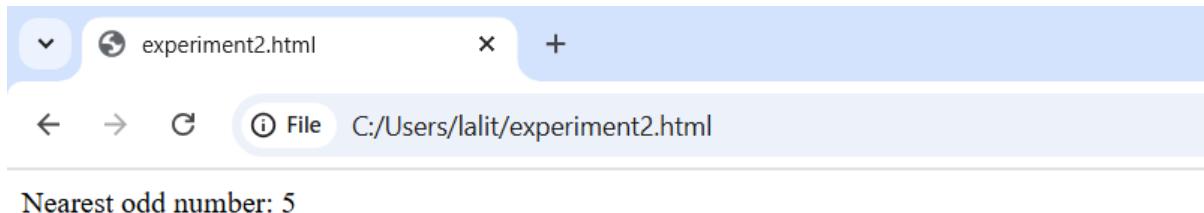
CODE :

```
<!DOCTYPE html>
<html>
<body>
<script>

let n = parseInt(prompt("Enter a number"));
if (n % 2 === 0) n = n + 1;
document.write("Nearest odd number: " + n);
```

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

OUPUT :

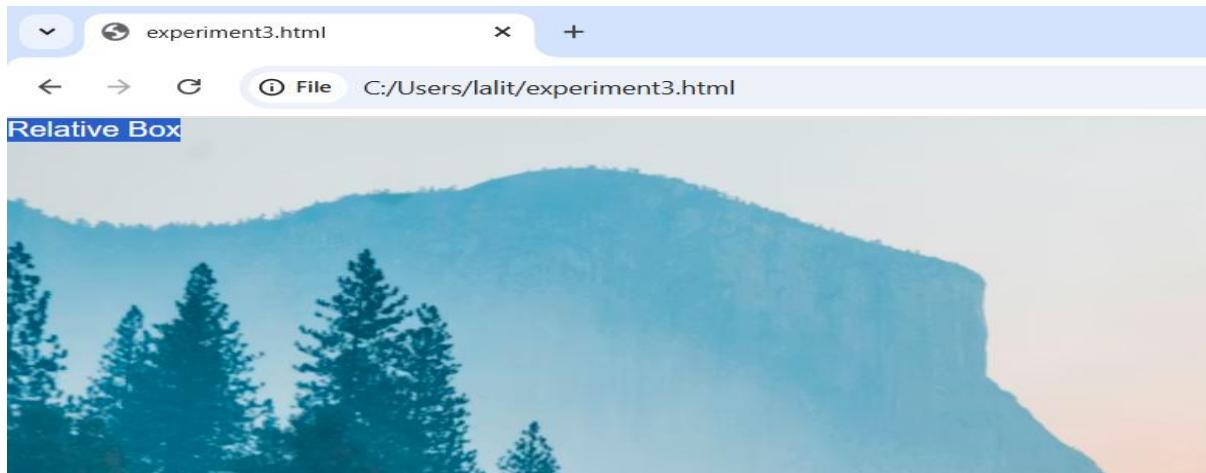


3. Create a HTML web page, change the position of the element relative to the parent element and relative to itself using relative positioning with a CSS file.

CODE :

```
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
    <link rel="stylesheet" href="style.css">  
  
</head>  
  
<body>  
  
    <div class="parent">  
        <div class="child">Relative Box</div>  
    </div>  
  
</body>  
  
</html>
```

OUTPUT :



5. Make a registration form and help the organization to collect their employee's details like, employer's name, id, address, department, mobile number and select their city from the drop down list box using HTML and CSS.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>Student Application</title>
<style>
body{
    margin:0;
    min-height:100vh;
    background:#f4f6f9;
    font-family:Segoe UI;
}
.header{
    background:#1d2671;
    color:white;
    padding:15px;
    text-align:center;
```

```
}

.formbox{
background:white;
max-width:450px;
margin:40px auto;
padding:30px;
border-radius:12px;
box-shadow:0 10px 25px rgba(0,0,0,0.15);
}

input{
width:100%;
padding:10px;
margin:10px 0;
}

button{
width:100%;
padding:10px;
background:#c33764;
color:white;
border:none;
border-radius:6px;
}

</style>

</head>

<body>

<div class="header">
<h2>Student Registration Application</h2>
</div>
```

```
<div class="formbox">
    <input id="sid" placeholder="Student ID">
    <input id="sname" placeholder="Student Name">
    <input id="sdept" placeholder="Department">
    <button onclick="save()">Submit Application</button>
</div>

<script>

let db;

let open = indexedDB.open("collegeDB",1);
open.onupgradeneeded = function(){
    db = open.result;
    db.createObjectStore("student", {keyPath:"id"});
};

open.onsuccess = function(){
    db = open.result;
};

function save(){
    let tx = db.transaction("student","readwrite");
    let store = tx.objectStore("student");

    store.add({
        id: sid.value,
        name: sname.value,
        dept: sdept.value
    });
    alert("Application Submitted Successfully");
    sid.value="";
    sname.value="";
    sdept.value="";
}
```

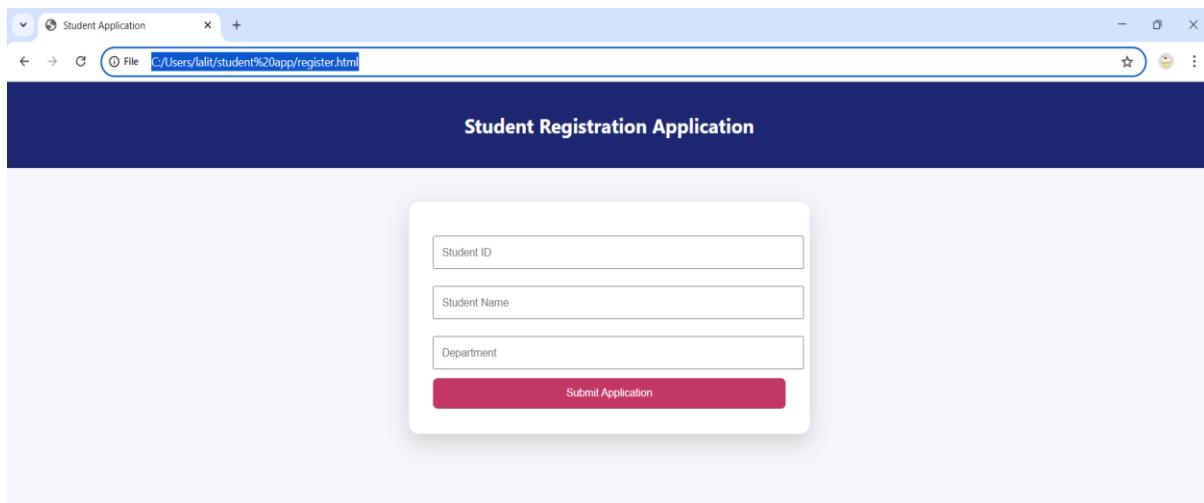
```
}
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT :



6. Write a HTML program for numerous elements and that should be organized separately with class selector by using Cascading Style Sheets(CSS) for external style sheets.

CODE :

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

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

```
</head>
```

```
<body>
```

```
<h1 class="title">Title</h1>
```

```
<p class="content">Paragraph</p>
```

```
<div class="box">Box</div>
```

```
</body>
```

```
</html>
```

OUPUT :



Title

Paragraph

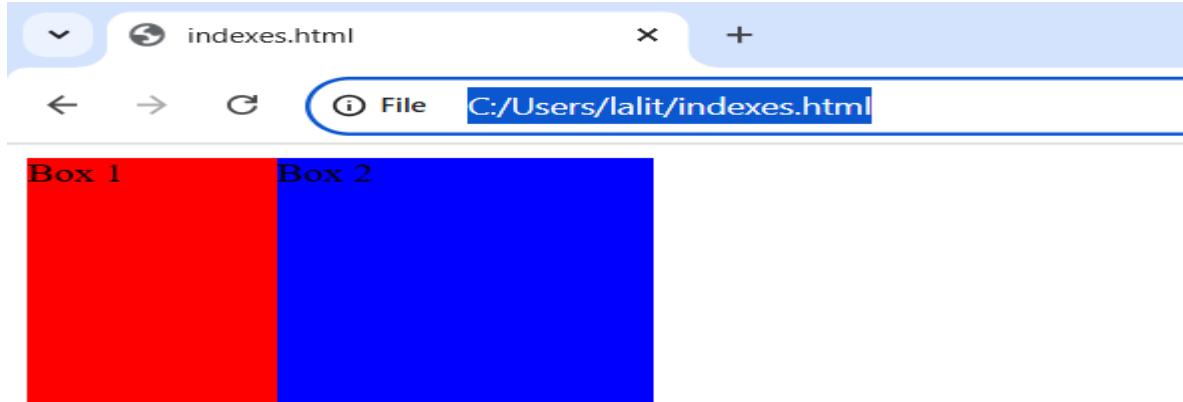


7. Create a HTML web page, change the position of the element float to get two elements to float over each other using float positioning with a CSS file.

CODE :

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="styling.css">
</head>
<body>
<div class="box1">Box 1</div>
<div class="box2">Box 2</div>
</body>
</html>
```

OUTPUT :



8. Write a java script page to find the

- Exponential value.
- Limit the number of digits after the decimal value.
- Convert a number to string.
- Return negative infinity using the number object in the HTML document.

CODE :

```
<!DOCTYPE html>

<html>
<body>
<script>

let n = 5.678;

document.write("Exponential: " + n.toExponential() + "<br>");
document.write("Fixed (2): " + n.toFixed(2) + "<br>");
document.write("To String: " + n.toString() + "<br>");
document.write("Negative Infinity: " + Number.NEGATIVE_INFINITY);

</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



9. Write a JavaScript program for Email validation. You can apply validation on the below text questions to ensure they accept answers in a specific format.

CODE :

```
<!DOCTYPE html>

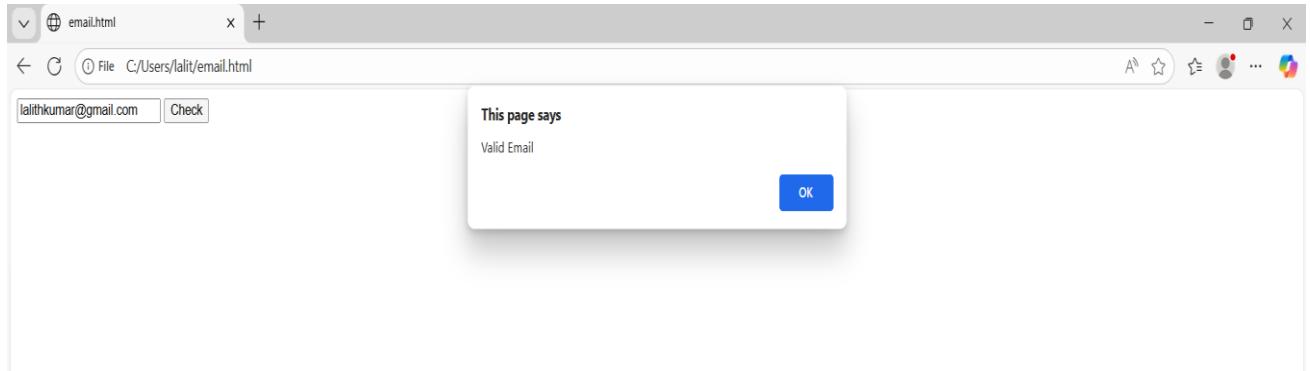
<html>
<body>

<input type="text" id="email">

<button onclick="validate()">Check</button>

<script>
function validate() {
    let email = document.getElementById("email").value;
    let regex = /^[^s@]+\@[^\s@]+\.[^\s@]+$/;
    alert(regex.test(email) ? "Valid Email" : "Invalid Email");
}
</script>
</body>
</html>
```

OUTPUT :



10. Write a HTML program to add a background GIF to a webpage and alter its height, width, transparency and transition using Cascading Style Sheets.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>Background GIF</title>
<style>
body {
    margin: 0;
    height: 100vh;
    background-image: url("https://media.giphy.com/media/3oEjI6SIIHBdRxXI40/giphy.gif");
    background-repeat: no-repeat;
    background-position: center;
    background-size: 300px 300px;
    opacity: 0.95;
    transition: background-size 2s ease;
}

/* Hover effect */
body:hover {
```

```
background-size: 500px 500px;  
}  
</style>  
</head>  
<body>  
</body>  
</html>
```

OUTPUT :



11. Create a web page to perform animation effects like picture slider effect. Include radio buttons and map it according to the picture.

CODE :

```
<!DOCTYPE html>  
<html>  
<head>  
<title>Image Slider</title>  
  
<style>  
.slider {  
width: 400px;  
height: 250px;  
margin-top: 15px;
```

```
position: relative;  
overflow: hidden;  
border: 2px solid black;  
}
```

```
.slider img {  
width: 400px;  
height: 250px;  
position: absolute;  
left: 0;  
top: 0;  
display: none;  
}
```

```
input {  
margin-right: 10px;  
}
```

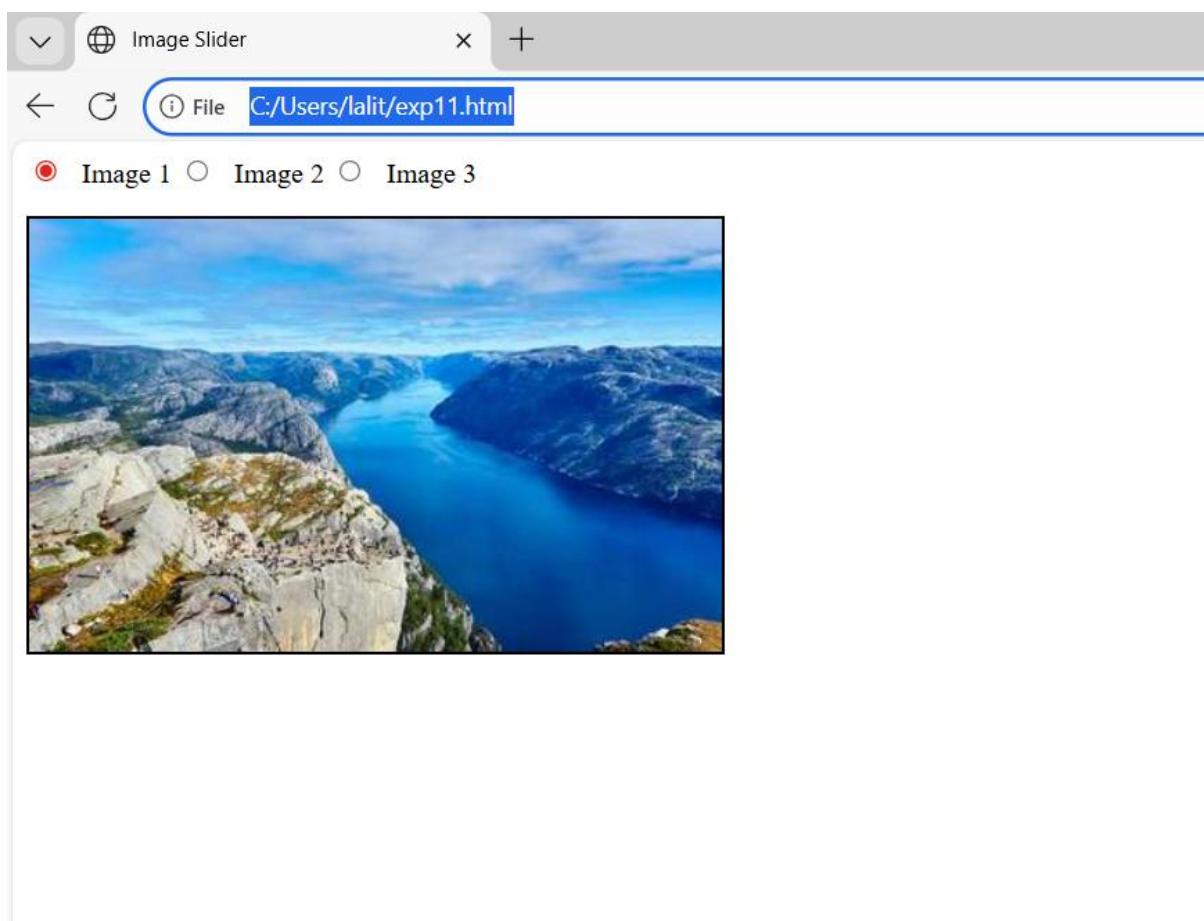
```
#s1:checked ~ .slider .img1,  
#s2:checked ~ .slider .img2,  
#s3:checked ~ .slider .img3 {  
display: block;  
}  
</style>
```

```
</head>  
<body>
```

```
<!-- Radio Buttons -->
```

```
<input type="radio" name="slide" id="s1" checked> Image 1  
<input type="radio" name="slide" id="s2"> Image 2  
<input type="radio" name="slide" id="s3"> Image 3  
  
<!-- Slider -->  
  
<div class="slider">  
    
    
    
</div>  
  
</body>  
</html>
```

OUTPUT :



12. Create a web page, add more elements and that should be organized internally by using Cascading Style Sheets(CSS) for internal style sheets.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>Internal CSS</title>
<style>
body {
    background-color: #f2f2f2;
}

h1 {
    color: blue;
    text-align: center;
}

.box {
    background: white;
    padding: 20px;
    margin: 20px;
    border: 2px solid black;
}

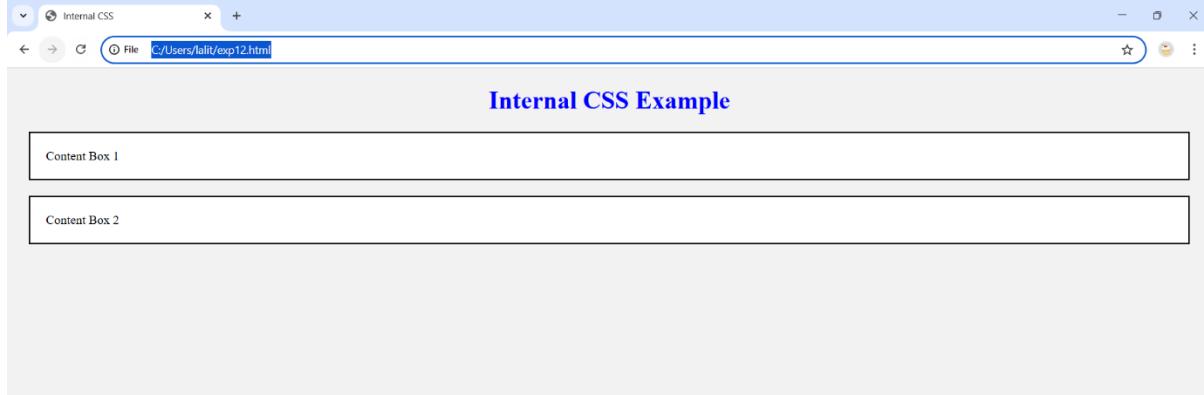
</style>
</head>
<body>

<h1>Internal CSS Example</h1>
<div class="box">Content Box 1</div>
<div class="box">Content Box 2</div>
```

```
</body>
```

```
</html>
```

OUTPUT :



13. Write a HTML program by including CSS files to use inline and internal style sheets.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>CSS Types</title>
<link rel="stylesheet" href="styless.css">
<style>
h2 {
    color: blue;
}
</style>
</head>
<body>
```

```
<h2>Internal CSS</h2>
```

```
<p>External CSS Applied</p>
```

```
<h3 style="color:red;">Inline CSS</h3>
```

```
</body>
```

```
</html>
```

CODE :



Internal CSS

External CSS Applied

Inline CSS

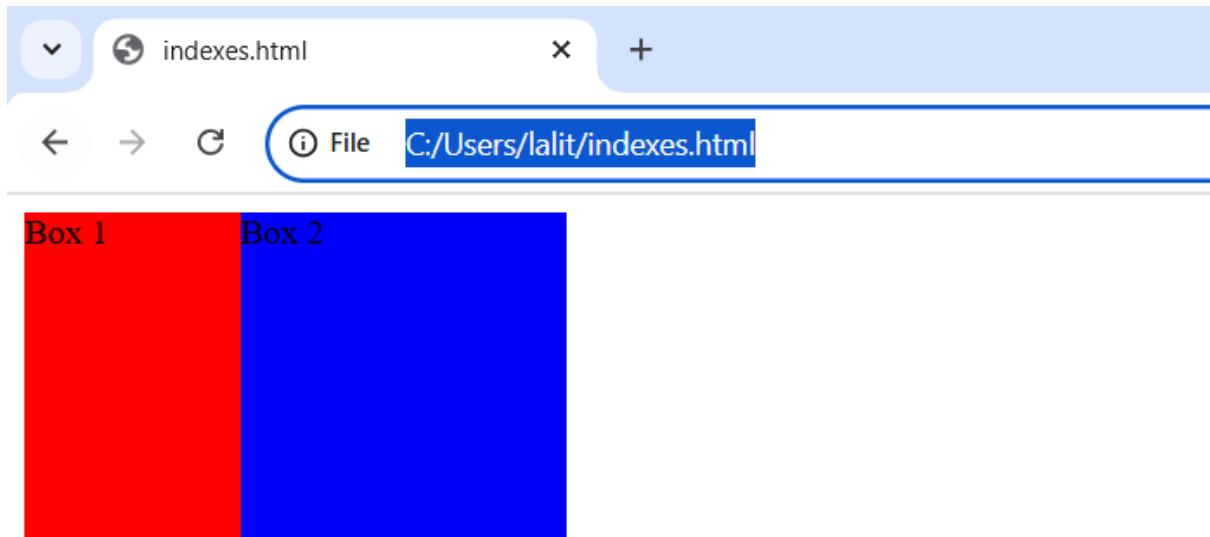
14. Create a HTML web page, change the position of the element absolute to get two elements over each other using absolute positioning with a CSS file.

CODE:

```
<!DOCTYPE html>

<html>
<head>
<link rel="stylesheet" href="styling.css">
</head>
<body>
<div class="box1">Box 1</div>
<div class="box2">Box 2</div>
</body>
</html>
```

OUTPUT:



15. Add a background picture to a web page and write a HTML program for background-repeat using CSS.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>Background Repeat Y</title>

<style>
body {
    margin: 0;
    font-family: Arial;
}

/* Repeat in all directions */
.box1 {
    height: 200px;
    background-image: url("https://picsum.photos/id/1015/100/100");
    background-repeat: repeat;
```

```
border: 2px solid black;  
}  
  
/* Repeat horizontally */  
.box2 {  
height: 200px;  
background-image: url("https://picsum.photos/id/1025/100/100");  
background-repeat: repeat-x;  
border: 2px solid black;  
}  
  
/* Repeat vertically (FIXED) */  
.box3 {  
height: 600px;      /* Increased height */  
background-image: url("https://picsum.photos/id/1035/100/100");  
background-repeat: repeat-y;  
border: 2px solid black;  
}  
</style>  
  
</head>  
<body>  
  
<div class="box1">Repeat</div>  
<div class="box2">Repeat-X</div>  
<div class="box3">Repeat-Y</div>  
  
</body>  
</html>
```

OUTPUT :



16. Write a Java servlet page for getting the details of employees and display the same.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>Employee Details System</title>

<style>
body{
    margin:0;
    font-family: Arial, sans-serif;
    background: linear-gradient(135deg,#74ebd5,#acb6e5);
    height:100vh;
    display:flex;
    justify-content:center;
    align-items:center;
}
```

```
.container{  
background: rgba(255,255,255,0.95);  
padding:30px;  
width:360px;  
border-radius:12px;  
box-shadow:0 8px 20px rgba(0,0,0,0.2);  
}  
  
h2{
```

```
text-align:center;  
color:#333;  
}  
  
input{
```

```
width:100%;  
padding:10px;  
margin-top:6px;  
margin-bottom:12px;  
border-radius:6px;  
border:1px solid #ccc;  
}  
  
button{
```

```
width:100%;  
padding:10px;  
border:none;  
border-radius:6px;  
background:#4b7bec;
```

```
color:white;  
font-size:16px;  
cursor:pointer;  
}  
  
button:hover{  
background:#3867d6;  
}  
  
#employeeForm{  
display:none;  
}  
</style>  
  
<script>  
function login(){  
var user = document.getElementById("username").value;  
var pass = document.getElementById("password").value;  
  
if(user === "admin" && pass === "admin123"){  
document.getElementById("loginForm").style.display = "none";  
document.getElementById("employeeForm").style.display = "block";  
}else{  
alert("Invalid Username or Password");  
}  
}  
</script>  
</head>
```

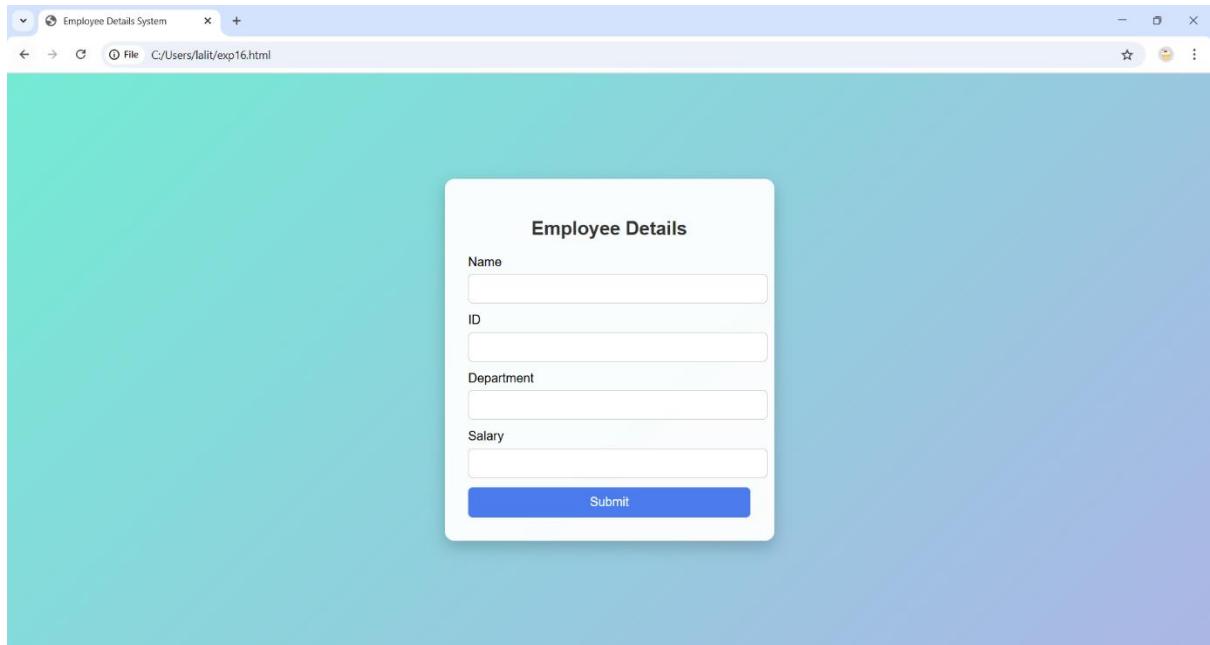
```
<body>

<div class="container" id="loginForm">
<h2>Login</h2>
<label>Username</label>
<input type="text" id="username" required>
<label>Password</label>
<input type="password" id="password" required>
<button onclick="login()">Login</button>
</div>
```

```
<div class="container" id="employeeForm">
<h2>Employee Details</h2>
<form>
<label>Name</label>
<input type="text">
<label>ID</label>
<input type="text">
<label>Department</label>
<input type="text">
<label>Salary</label>
<input type="number">
<button type="submit">Submit</button>
</form>
</div>
```

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

OUTPUT :



17. Create a web page to prepare the mark list to display the marks scored by the students in their class test by using HTML table property.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>Mark List</title>
</head>
<body>
<h2>Class Test Mark List</h2>
<table border="1" cellpadding="10">
<tr>
<th>Roll No</th><th>Name</th><th>Maths</th><th>Science</th><th>Total</th>
</tr>
<tr>
<td>1</td><td>Arun</td><td>80</td><td>75</td><td>155</td>
</tr>
<tr>
```

```

<td>2</td><td>Kiran</td><td>85</td><td>90</td><td>175</td>
</tr>
</table>
</body>
</html>

```

OUTPUT :

Roll No	Name	Maths	Science	Total
1	Arun	80	75	155
2	Kiran	85	90	175

18. All HTML elements occupying a rectangular area are called a box. The box may be in the screen or other visual output medium. Every box contains a nested collection of rectangular subareas. Write a HTML program for box model.

CODE :

```

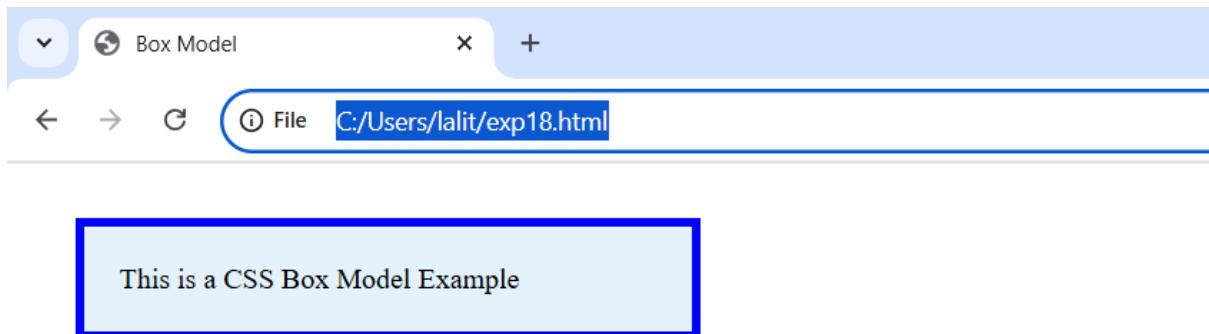
<!DOCTYPE html>

<html>
<head>
<title>Box Model</title>
<style>
.box{
width:300px;
padding:20px;

```

```
border:5px solid blue;  
margin:30px;  
background:#e3f2fd;  
}  
</style>  
</head>  
<body>  
<div class="box">  
This is a CSS Box Model Example  
</div>  
</body>  
</html>
```

OUTPUT :



19. Create a Job Portal web page using various HTML elements and organize every html document with help of CSS elements.

CODE :

```
<!DOCTYPE html>  
<html lang="en">  
<head>
```

```
<meta charset="UTF-8">
<title>Online Job Portal</title>

<style>
body{
    margin:0;
    font-family:Arial, Helvetica, sans-serif;
    background:#f2f4f8;
}

/* Header */
.header{
    background:#0d47a1;
    color:white;
    padding:20px;
    text-align:center;
}

/* Navigation */
.nav{
    background:#1565c0;
    padding:10px;
    text-align:center;
}
.nav a{
    color:white;
    margin:0 15px;
    text-decoration:none;
    font-weight:bold;
}
```

```
}
```

```
/* Main Layout */
```

```
.container{  
    display:flex;  
    padding:20px;  
}
```

```
/* Sidebar */
```

```
.sidebar{  
    width:25%;  
    background:white;  
    padding:20px;  
    border-radius:10px;  
    margin-right:20px;  
}  
.sidebar h3{  
    border-bottom:2px solid #1565c0;  
    padding-bottom:5px;  
}
```

```
/* Job Listings */
```

```
.jobs{  
    width:75%;  
}  
.job-card{  
    background:white;  
    padding:20px;  
    margin-bottom:15px;
```

```
border-radius:10px;  
box-shadow:0 2px 5px rgba(0,0,0,0.1);  
}  
.job-card h3{  
color:#0d47a1;  
}  
.job-card button{  
background:#0d47a1;  
color:white;  
border:none;  
padding:10px 15px;  
border-radius:5px;  
cursor:pointer;  
}
```

```
/* Footer */  
.footer{  
background:#0d47a1;  
color:white;  
text-align:center;  
padding:15px;  
margin-top:20px;  
}  
</style>  
</head>
```

```
<body>  
  
<div class="header">
```

```
<h1>Online Job Portal</h1>
<p>Find Your Dream Job</p>
</div>
```

```
<div class="nav">
<a href="#">Home</a>
<a href="#">Jobs</a>
<a href="#">Companies</a>
<a href="#">Contact</a>
</div>
```

```
<div class="container">
<div class="sidebar">
<h3>Search Jobs</h3>

<form>
<label>Keyword</label><br>
<input type="text"><br><br>

<label>Location</label><br>
<input type="text"><br><br>

<label>Job Type</label><br>
<select>
<option>Full Time</option>
<option>Part Time</option>
<option>Internship</option>
</select><br><br>
```

```
<input type="submit" value="Search">  
</form>  
</div>
```

```
<div class="jobs">
```

```
<div class="job-card">  
  <h3>Software Developer</h3>  
  <p>Company: ABC Tech</p>  
  <p>Location: Chennai</p>  
  <p>Experience: 2+ Years</p>  
  <button>Apply Now</button>  
</div>
```

```
<div class="job-card">  
  <h3>Web Designer</h3>  
  <p>Company: Creative Labs</p>  
  <p>Location: Bangalore</p>  
  <p>Experience: 1+ Year</p>  
  <button>Apply Now</button>  
</div>
```

```
<div class="job-card">  
  <h3>Data Analyst</h3>  
  <p>Company: DataSoft</p>  
  <p>Location: Hyderabad</p>  
  <p>Experience: Fresher</p>  
  <button>Apply Now</button>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
<div class="footer">
```

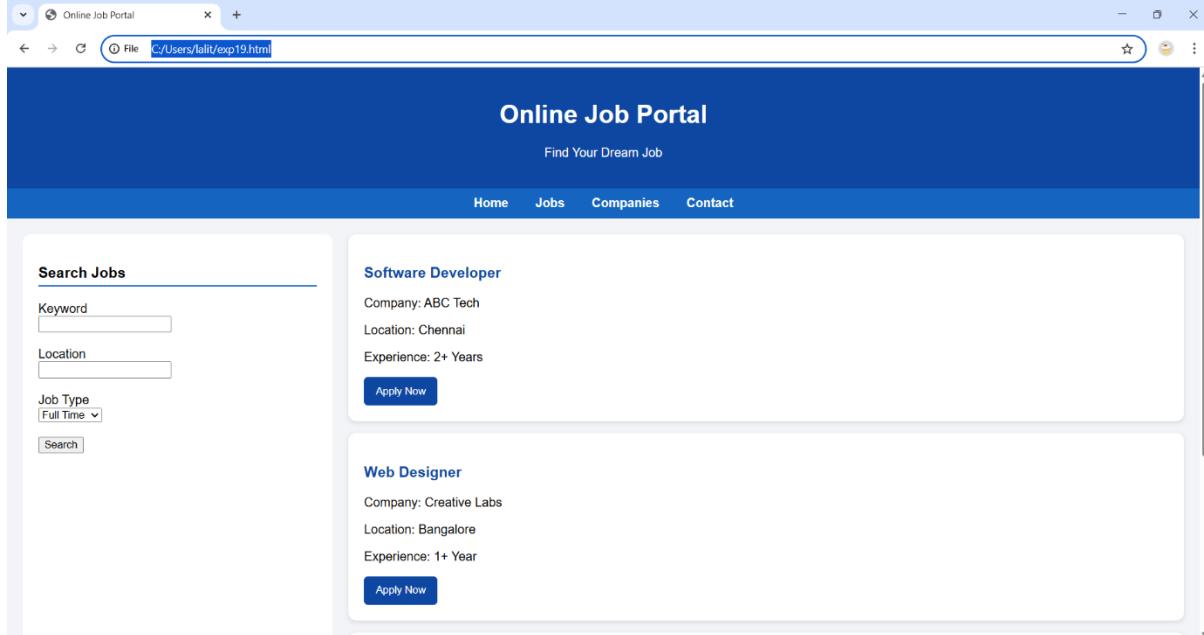
```
    © 2025 Online Job Portal | All Rights Reserved
```

```
</div>
```

```
</body>
```

```
</html>
```

OUTPUT :



20. Write the HTML program to add emojis with fixed size and also identify the best positioning elements which are available in CSS.

CODE :

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="UTF-8">
<title>CSS Positioning with Emojis</title>

<style>
body{
    margin:0;
    font-family:Arial, Helvetica, sans-serif;
    background:#f2f2f2;
    padding:20px;
    height:200vh; /* for scrolling */
}

/* Fixed size emoji */
.emoji{
    font-size:45px;
}

/* Common box style */
.box{
    padding:12px;
    margin:10px 0;
    border:2px solid #000;
    width:260px;
}

/* Positioning styles */
.static{
    position:static;
    background:#e3f2fd;
```

```
}
```

```
.relative{
```

```
    position:relative;
```

```
    top:15px;
```

```
    left:25px;
```

```
    background:#fff9c4;
```

```
}
```

```
.container{
```

```
    position:relative;
```

```
    height:220px;
```

```
    border:2px dashed #333;
```

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

```
    padding:10px;
```

```
    background:#ffffff;
```

```
}
```

```
.absolute{
```

```
    position:absolute;
```

```
    top:20px;
```

```
    right:20px;
```

```
    background:#c8e6c9;
```

```
}
```

```
.fixed{
```

```
    position:fixed;
```

```
    bottom:20px;
```

```
    right:20px;
```

```
background:#ffccdd2;  
}
```

```
.sticky{  
position:sticky;  
top:0;  
background:#d1c4e9;  
}  
</style>  
</head>
```

```
<body>
```

```
<h1>Emojis with Fixed Size & CSS Positioning</h1>
```

```
<h2>Fixed Size Emojis</h2>
```

```
<p class="emoji">😊 😎 🚀 ❤️ 👍 </p>
```

```
<h2>CSS Positioning Elements</h2>
```

```
<div class="box static">  
  Static Position 😊  
</div>
```

```
<div class="box relative">  
  Relative Position 😋  
</div>
```

```
<div class="sticky box">
```

Sticky Position 🚀 (sticks on scroll)

</div>

```
<div class="container">
```

Parent Container (Relative)

```
<div class="box absolute">
```

Absolute Position 🚀

```
</div>
```

```
</div>
```

```
<div class="box fixed">
```

Fixed Position ❤️

```
</div>
```

```
<p style="margin-top:300px;">
```

Scroll the page to see the **sticky** and **fixed** positioning effects clearly.

```
</p>
```

```
</body>
```

```
</html>
```

OUTPUT :



21. Write a HTML program to divide the web page into various frames using frameset tag instead of body tag.

CODE :

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1" />
    <title>Three Vertical Sections</title>
    <style>
      * { box-sizing: border-box; }

      html, body {
        height: 100%;
        margin: 0;
        font-family: system-ui, sans-serif;
      }

      .container {
        display: flex;
```

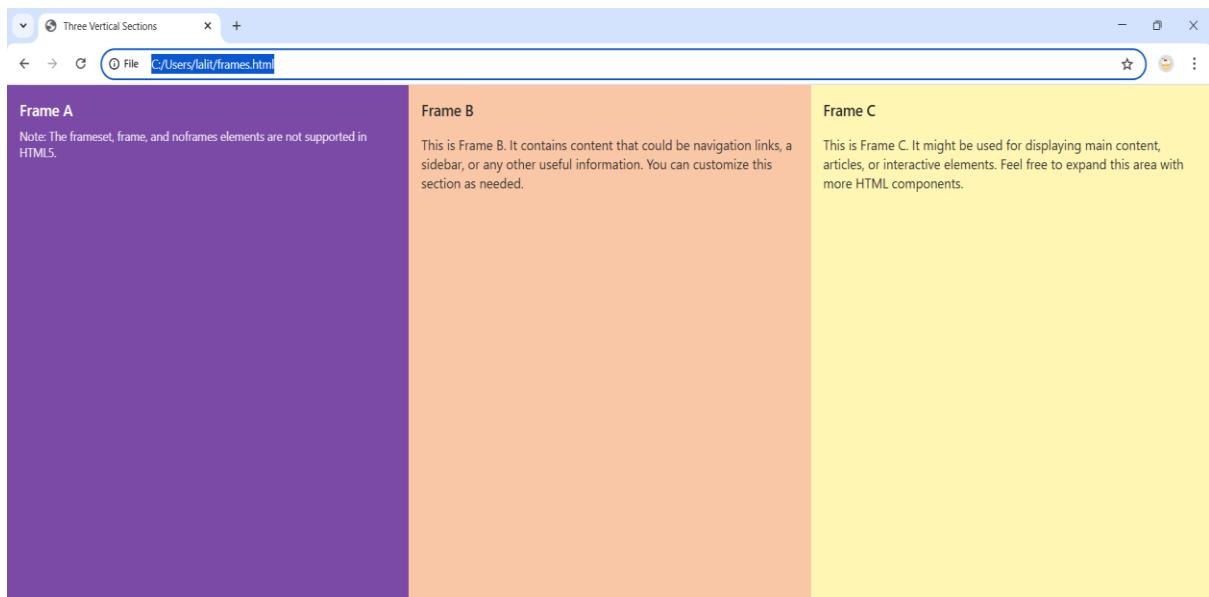
```
height: 100%;  
width: 100%;  
}  
  
.section {  
flex: 1;  
padding: 16px;  
overflow: auto;  
border-right: 1px solid rgba(0,0,0,0.08);  
}  
.section:last-child { border-right: none; }  
  
.a { background: #7b4aa6; color: #fff; }  
.b { background: #f9c7a5; color: #333; }  
.c { background: #fff6b3; color: #333; }  
  
.title {  
margin: 0 0 8px;  
font-weight: 600;  
font-size: 18px;  
}  
.note {  
margin-top: 8px;  
font-size: 14px;  
opacity: 0.9;  
}  
</style>  
</head>  
<body>
```

```

<div class="container">
  <section class="section a">
    <h2 class="title">Frame A</h2>
    <p class="note">Note: The frameset, frame, and noframes elements are not supported in HTML5.</p>
  </section>
  <section class="section b">
    <h2 class="title">Frame B</h2>
    <p>This is Frame B. It contains content that could be navigation links, a sidebar, or any other useful information. You can customize this section as needed.</p>
  </section>
  <section class="section c">
    <h2 class="title">Frame C</h2>
    <p>This is Frame C. It might be used for displaying main content, articles, or interactive elements. Feel free to expand this area with more HTML components.</p>
  </section>
</div>
</body>
</html>

```

OUTPUT :



22. Create a web page to embed the multimedia element with audio and video controls on it.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>Multimedia Example</title>
<style>
body {
    font-family: Arial, sans-serif;
    text-align: center;
    background-color: #f0f8ff;
    padding: 50px;
}
h1 {
    color: #333;
}
video, audio {
    margin: 20px 0;
    border: 2px solid #333;
    border-radius: 10px;
}
</style>
</head>
<body>
<h1>Multimedia Embedding Example</h1>
<!-- Video element -->
```

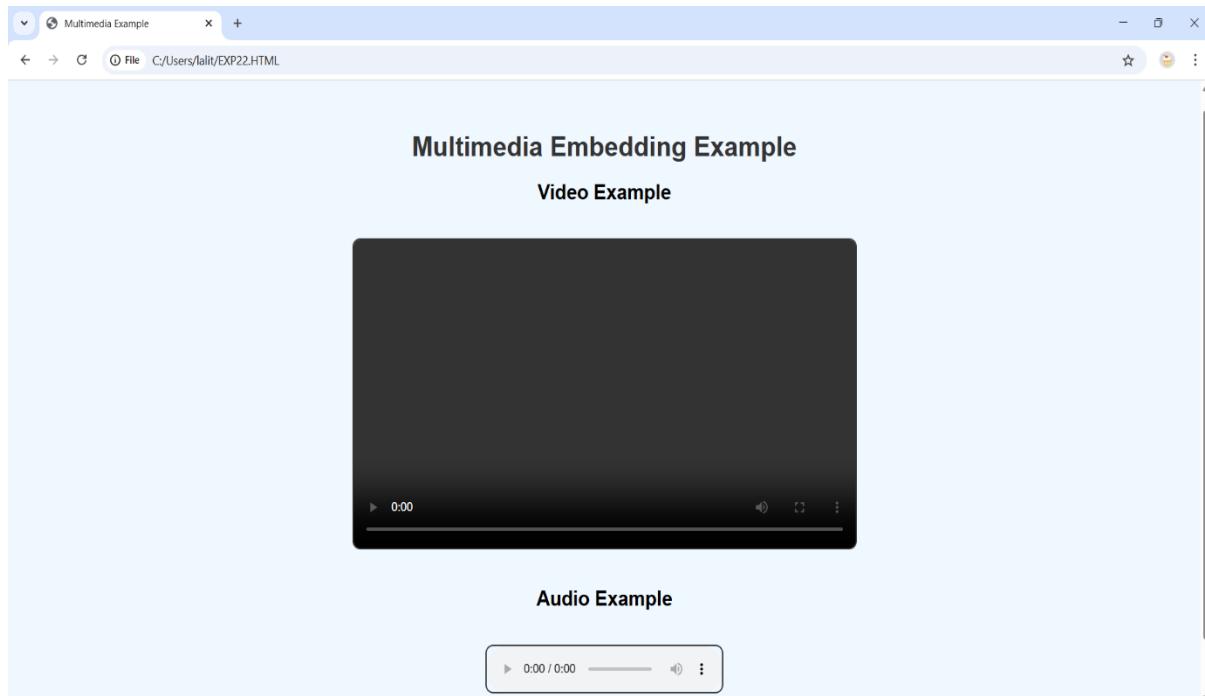
```
<h2>Video Example</h2>
<video width="640" height="360" controls>
  <source src="sample-video.mp4" type="video/mp4">
  Your browser does not support the video tag.
</video>
```

```
<!-- Audio element -->
<h2>Audio Example</h2>
<audio controls>
  <source src="sample-audio.mp3" type="audio/mpeg">
  Your browser does not support the audio tag.
</audio>
```

```
</body>
```

```
</html>
```

OUTPUT :



23. Create a Servlet program to display confirmed dishes which are selected by the user in hotel management.

CODE :

```
<!DOCTYPE html>

<html>
<head>
    <title>Hotel Management - Confirmed Dishes</title>
    <style>
        body {
            font-family: 'Arial', sans-serif;
            background: url('https://images.pexels.com/photos/70497/pexels-photo-70497.jpeg?auto=compress&cs=tinysrgb&h=650&w=940') no-repeat center center fixed;
            background-size: cover;
            color: #fff;
            text-align: center;
            padding: 50px 20px;
        }

        h1 {
            background-color: rgba(0, 0, 0, 0.6);
            display: inline-block;
            padding: 15px 30px;
            border-radius: 10px;
        }

.dish-container {
        display: flex;
        flex-wrap: wrap;
        justify-content: center;
```

```
margin-top: 40px;  
}  
  
.dish-card {  
background-color: rgba(255, 255, 255, 0.9);  
color: #333;  
width: 200px;  
margin: 15px;  
border-radius: 15px;  
overflow: hidden;  
box-shadow: 0 5px 15px rgba(0,0,0,0.3);  
transition: transform 0.3s;  
}  
  
.dish-card:hover {  
transform: scale(1.05);  
}  
  
.dish-card img {  
width: 100%;  
height: 150px;  
object-fit: cover;  
}  
  
.dish-card input[type="checkbox"] {  
margin: 10px 0;  
}  
  
.dish-card label {
```

```
    display: block;  
    font-weight: bold;  
    margin-bottom: 10px;  
}  
  
}
```

```
.confirm-btn {  
    margin-top: 30px;  
    padding: 12px 25px;  
    font-size: 18px;  
    border: none;  
    border-radius: 8px;  
    background-color: #ff6347;  
    color: white;  
    cursor: pointer;  
    transition: background 0.3s;  
}  
  
}
```

```
.confirm-btn:hover {  
    background-color: #e5533d;  
}
```

```
#confirmedDishes {  
    margin-top: 40px;  
    font-size: 20px;  
    font-weight: bold;  
    background-color: rgba(0,0,0,0.5);  
    display: inline-block;  
    padding: 20px;  
    border-radius: 10px;
```

```

        }

    </style>

<script>

    function confirmDishes() {

        const checkboxes = document.querySelectorAll('input[name="dish"]:checked');

        const confirmedDiv = document.getElementById('confirmedDishes');


        if (checkboxes.length === 0) {

            confirmedDiv.innerHTML = "No dishes selected!";

            confirmedDiv.style.color = "red";

            return;
        }

        let confirmedList = "You have confirmed the following dishes:<br><ul>";

        checkboxes.forEach(cb => {

            confirmedList += `<li>${cb.value}</li>`;

        });

        confirmedList += "</ul>";

        confirmedDiv.innerHTML = confirmedList;

        confirmedDiv.style.color = "#fff";
    }
}

</script>

</head>

<body>

    <h1>|| Hotel Menu - Select Your Dishes ||</h1>

    <div class="dish-container">

        <div class="dish-card">

```

```
<label>Paneer Butter Masala</label>
<input type="checkbox" name="dish" value="Paneer Butter Masala">
</div>

<div class="dish-card">
    
    <label>VEG ROLL</label>
    <input type="checkbox" name="dish" value="VEG ROLL">
</div>

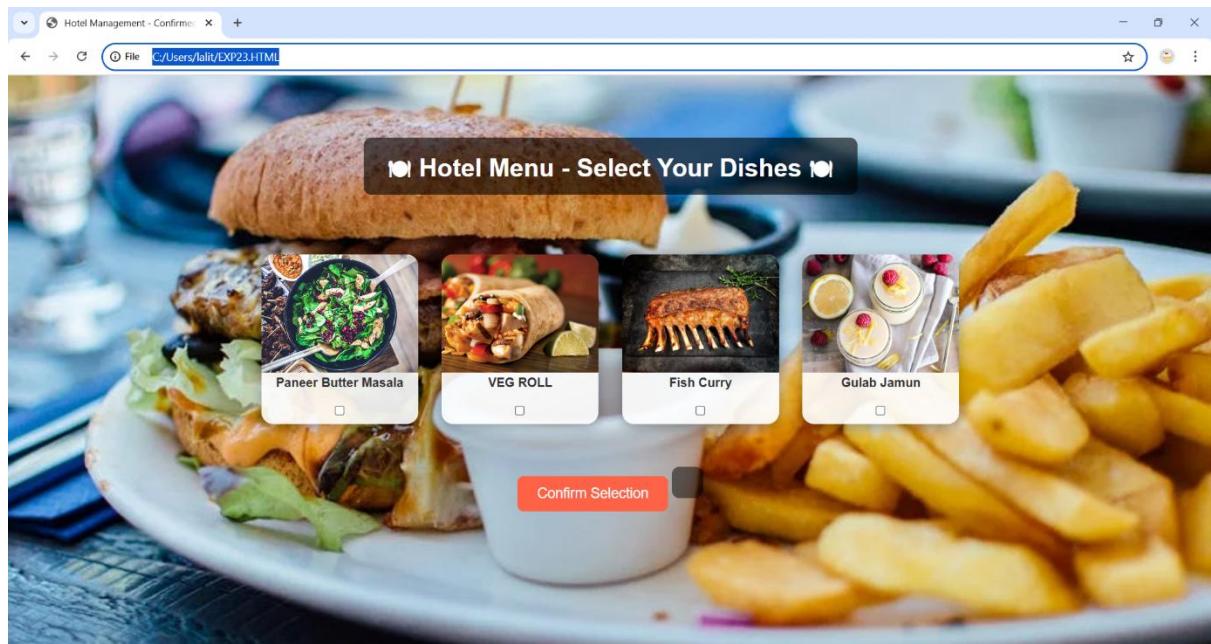
<div class="dish-card">
    
    <label>Fish Curry</label>
    <input type="checkbox" name="dish" value="Fish Curry">
</div>

<div class="dish-card">
    
    <label>Gulab Jamun</label>
    <input type="checkbox" name="dish" value="Gulab Jamun">
</div>

</div>

<button class="confirm-btn" onclick="confirmDishes()">Confirm Selection</button>
<div id="confirmedDishes"></div>
</body>
</html>
```

OUTPUT :



24. Write a program using Javascript and display the date and time object on the HTML document.

CODE :

```
<!DOCTYPE html>

<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Date and Time Display</title>
    <style>
      body {
        font-family: Arial, sans-serif;
        display: flex;
        justify-content: center;
        align-items: center;
        height: 100vh;
        background: linear-gradient(135deg, #89f7fe, #66a6ff);
        margin: 0;
      }
    </style>
  </head>
  <body>
    <div>
      <h1>Welcome to our Hotel!</h1>
      <p>Please select your dishes from the menu below:</p>
      <ul>
        <li>1. Paneer Butter Masala</li>
        <li>2. VEG ROLL</li>
        <li>3. Fish Curry</li>
        <li>4. Gulab Jamun</li>
      </ul>
      <button>Confirm Selection</button>
    </div>
  </body>
</html>
```

```
        }

.datetime-container {
    background-color: rgba(255, 255, 255, 0.8);
    padding: 40px 60px;
    border-radius: 15px;
    box-shadow: 0 8px 20px rgba(0,0,0,0.2);
    text-align: center;
}

h1 {
    color: #333;
}

p {
    font-size: 1.5em;
    color: #555;
    margin: 10px 0 0 0;
}

</style>

</head>

<body>

<div class="datetime-container">
    <h1>Current Date & Time</h1>
    <p id="datetime"></p>
</div>

<script>
    function displayDateTime() {
        const now = new Date();
        const options = {
            weekday: 'long',
            year: 'numeric',

```

```
month: 'long',
day: 'numeric',
hour: '2-digit',
minute: '2-digit',
second: '2-digit',
hour12: true
};

document.getElementById('datetime').innerText = now.toLocaleString('en-US', options);
}

// Update date & time every second
setInterval(displayDateTime, 1000);

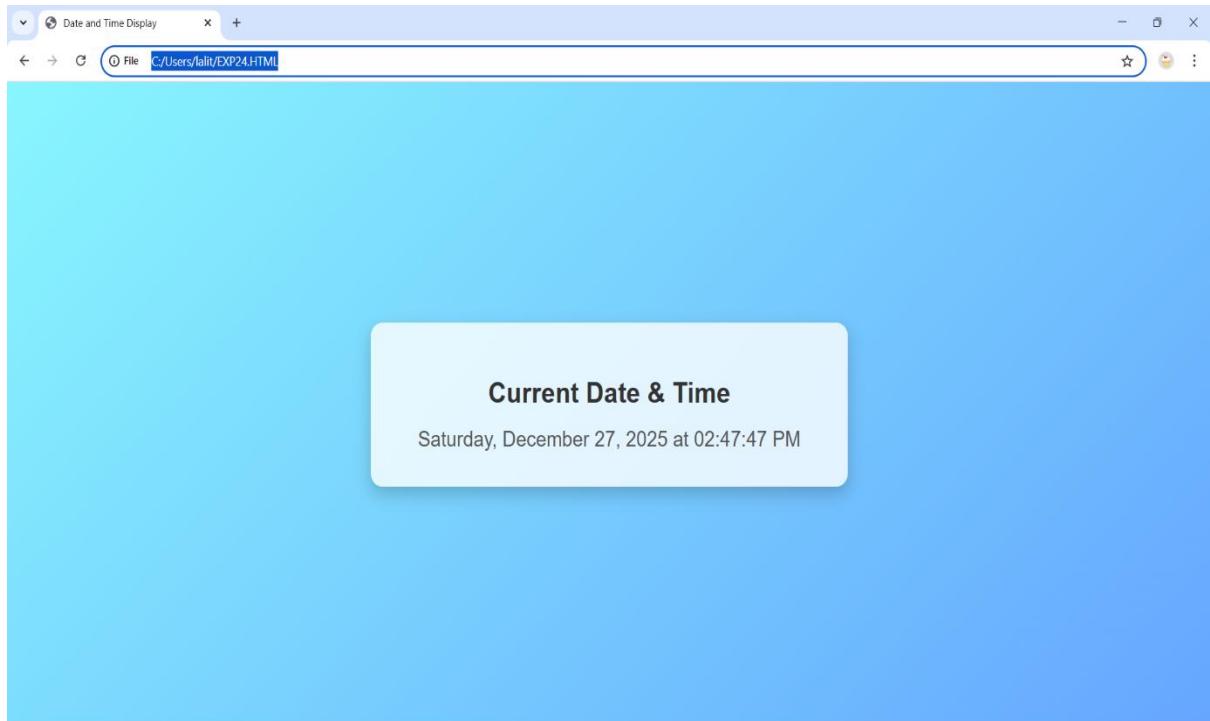
displayDateTime(); // initial call

</script>

</body>

</html>
```

OUPUT :



25. Write a program using the string object in the HTML document, which includes,

- (1) Returning the character at a specified location**
- (2) Returns the unicode of the character at the specified index**
- (3) Joins two or more strings and returns and returns a new joined string.**
- (4) Converts unicode value to string.**
- (5) Converts a string to uppercase letters.**

CODE :

```
<!DOCTYPE html>

<html lang="en">
<head>

<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Interactive String Methods</title>
<style>

body {
    font-family: Arial, sans-serif;
    background: linear-gradient(135deg, #89f7fe, #66a6ff);
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    margin: 0;
}

.container {
    background-color: rgba(255,255,255,0.95);
    padding: 30px 40px;
    border-radius: 15px;
    box-shadow: 0 8px 20px rgba(0,0,0,0.2);
    max-width: 600px;
}
```

```
width: 100%;  
}  
  
h1 {  
    text-align: center;  
    color: #333;  
}  
  
input, button {  
    padding: 8px 12px;  
    margin: 5px 0;  
    font-size: 1em;  
    border-radius: 5px;  
    border: 1px solid #ccc;  
}  
  
button {  
    background-color: #66a6ff;  
    color: white;  
    cursor: pointer;  
    border: none;  
}  
  
button:hover {  
    background-color: #557de8;  
}  
  
p {  
    margin: 8px 0;  
    font-size: 1.1em;  
    color: #333;  
}  
  
</style>  
</head>
```

```
<body>
<div class="container">
    <h1>Interactive String Methods</h1>
    <label>Enter a string:</label><br>
    <input type="text" id="userString" placeholder="Type something"><br>
    <label>Enter an index (number):</label><br>
    <input type="number" id="userIndex" placeholder="e.g., 1"><br>
    <label>Enter a Unicode value (number):</label><br>
    <input type="number" id="unicodeValue" placeholder="e.g., 72"><br>
    <button onclick="processString()">Show Results</button>
    <p id="charAt"></p>
    <p id="charCodeAt"></p>
    <p id="concat"></p>
    <p id="fromCharCode"></p>
    <p id="toUpperCase"></p>
</div>
<script>
function processString() {
    let str = document.getElementById("userString").value;
    let index = parseInt(document.getElementById("userIndex").value);
    let unicodeVal = parseInt(document.getElementById("unicodeValue").value);
    if(!str) {
        alert("Please enter a string!");
        return;
    }
    if(isNaN(index) || index < 0 || index >= str.length) {
        alert("Please enter a valid index within the string length!");
        return;
    }
}
```

```

if(isNaN(unicodeVal)) {

    alert("Please enter a valid Unicode number!");

    return;

}

document.getElementById("charAt").innerText = `Character at index ${index}:
${str.charAt(index)}`;

document.getElementById("charCodeAt").innerText = `Unicode of character at index
${index}: ${str.charCodeAt(index)}`;

let joinedString = str.concat(" - JavaScript");

document.getElementById("concat").innerText = `Joined string: ${joinedString}`;

document.getElementById("fromCharCode").innerText = `Character from Unicode
${unicodeVal}: ${String.fromCharCode(unicodeVal)}`;

// 5. Convert string to uppercase

document.getElementById("toUpperCase").innerText = `Uppercase:
${str.toUpperCase()}`;

}

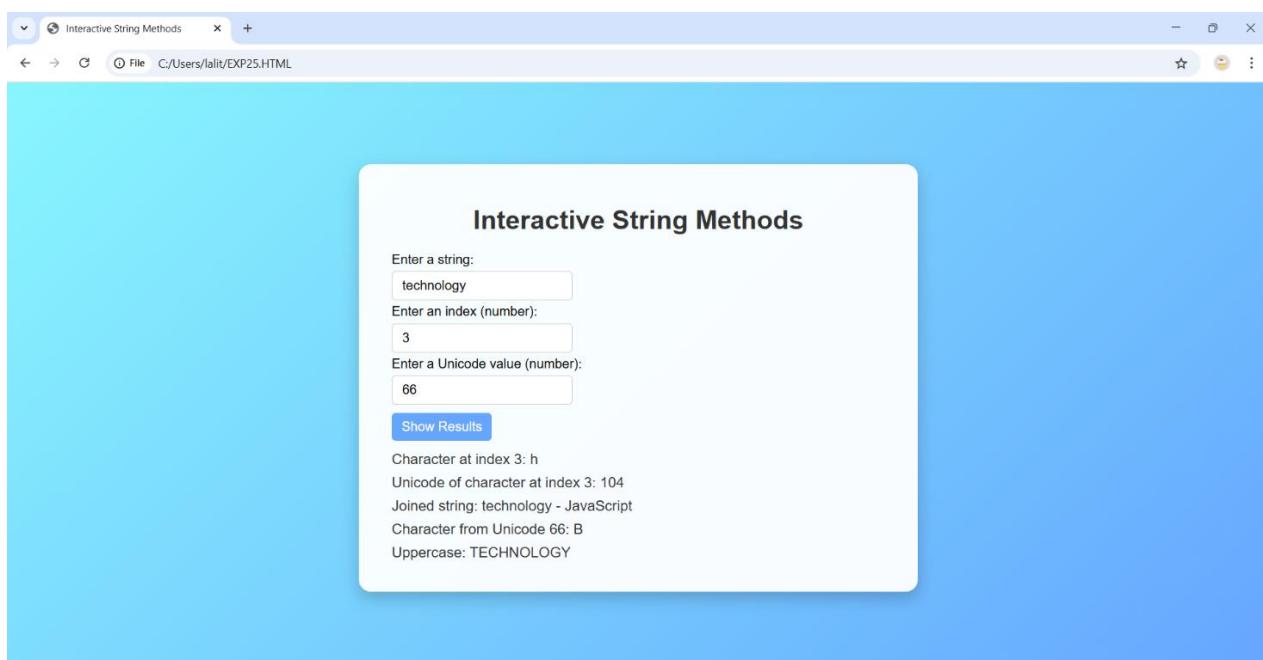
</script>

</body>

</html>

```

OUTPUT :



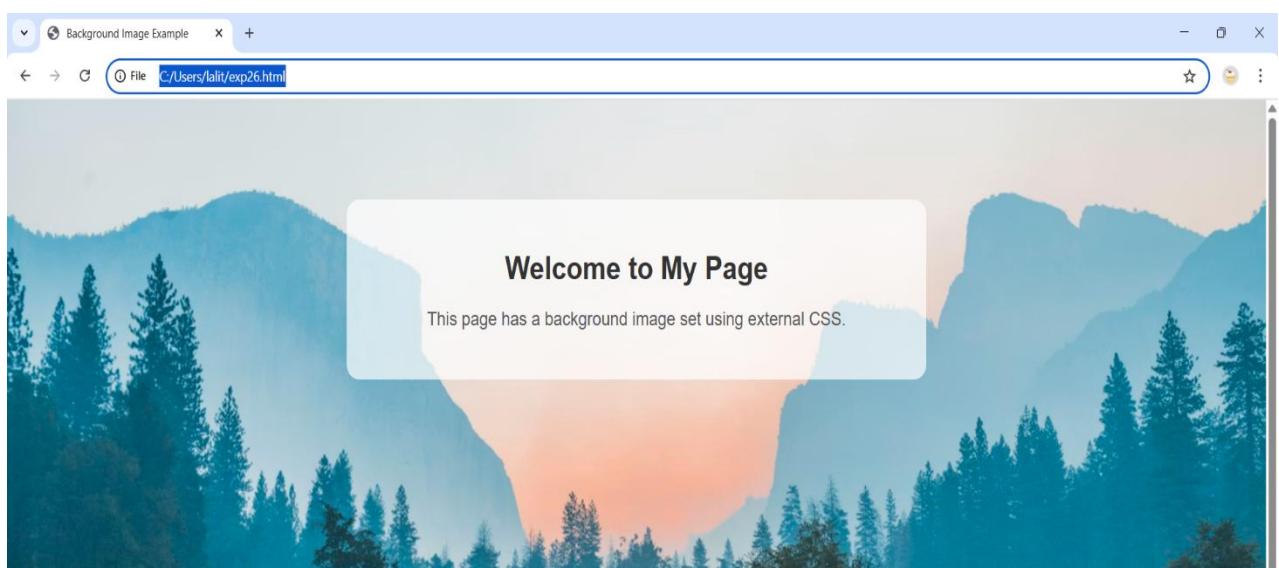
26. Write an HTML program to add a background-image property using URL and style tag using external type of CSS.

CODE :

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Background Image Example</title>
<!-- Link to external CSS -->
<link rel="stylesheet" href="style.css">
</head>
<body>
<div class="content">
<h1>Welcome to My Page</h1>
<p>This page has a background image set using external CSS.</p>
</div>
</body>
</html>
```

CODE :



27. Create a JSP program to count the number of clients viewed on your website.

CODE :

```
<!DOCTYPE html>

<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Visitor Counter</title>
    <style>
        body {
            font-family: Arial, sans-serif;
            background: linear-gradient(135deg, #f6d365, #fd085);
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
        }
        .container {
            background-color: rgba(255,255,255,0.9);
            padding: 40px 60px;
            border-radius: 15px;
            text-align: center;
            box-shadow: 0 8px 20px rgba(0,0,0,0.2);
        }
        h1 {
            color: #333;
        }
        p {

```

```

        font-size: 1.5em;
        color: #555;
    }

</style>

</head>

<body>

<div class="container">

    <h1>Welcome to My Website</h1>

    <p>Total Visitors: <strong id="visitorCount">0</strong></p>

</div>

<script>

// Get current visitor count from localStorage

let count = localStorage.getItem('visitorCount');

if (!count) {

    count = 0; // if not set, initialize to 0

}

count++; // increment count

localStorage.setItem('visitorCount', count); // save updated count

document.getElementById('visitorCount').innerText = count;

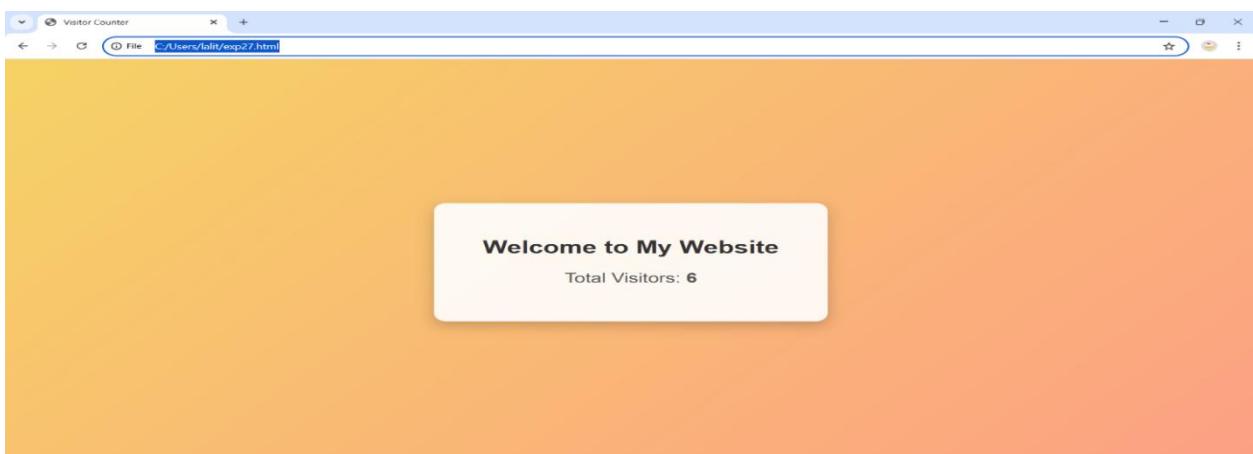
</script>

</body>

</html>

```

OUTPUT :



28. Create a registration form for student database management and display the collected document by using servlet program.

CODE :

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Login & Student Registration</title>

<style>
body{
    font-family:Arial,sans-serif;
    background:linear-gradient(135deg,#f6d365,#fda085);
    display:flex;
    justify-content:center;
    align-items:flex-start;
    padding:50px 0;
    margin:0;
}
.container{
    background:rgba(255,255,255,0.95);
    padding:30px 40px;
    border-radius:15px;
    box-shadow:0 8px 20px rgba(0,0,0,0.2);
    max-width:500px;
    width:100%;
}
h1 {text-align:center;color:#333}
```

```
label{display:block;margin-top:15px;color:#555}

input,select{
    width:100%;
    padding:8px;
    margin-top:5px;
    border-radius:5px;
    border:1px solid #ccc;
}

button{
    margin-top:20px;
    width:100%;
    padding:10px;
    background:#66a6ff;
    color:white;
    border:none;
    border-radius:5px;
    cursor:pointer;
}

button:hover{background:#557de8}

.error{color:red;text-align:center;margin-top:10px}

.success{
    text-align:center;
    color:green;
    font-size:20px;
}

.output{
    margin-top:30px;
    background:#fff;
    padding:20px;
```

```
border-radius:10px;  
}  
.output p{margin:6px 0}  
</style>  
</head>  
  
<body>  
  
<!-- LOGIN -->  
<div class="container" id="loginBox">  
<h1>Login</h1>  
  
<label>Username:</label>  
<input type="text" id="username">  
  
<label>Password:</label>  
<input type="password" id="password">  
  
<button onclick="login()">Login</button>  
<div class="error" id="loginError"></div>  
</div>  
  
<!-- LOGIN SUCCESS -->  
<div class="container" id="successBox" style="display:none">  
<div class="success">✓ Login Successful</div>  
</div>  
  
<!-- REGISTRATION -->  
<div class="container" id="registerBox" style="display:none">
```

```
<h1>Student Registration</h1>
```

```
<form id="studentForm">  
<label>Student Name:</label>  
<input type="text" id="name" required>
```

```
<label>Roll Number:</label>  
<input type="text" id="roll" required>
```

```
<label>Email:</label>  
<input type="email" id="email" required>
```

```
<label>Course:</label>  
<select id="course" required>  
<option value="">--Select Course--</option>  
<option>B.Tech IT</option>  
<option>B.Tech CSE</option>  
<option>BBA</option>  
</select>
```

```
<label>Gender:</label>  
<select id="gender" required>  
<option value="">--Select Gender--</option>  
<option>Male</option>  
<option>Female</option>  
<option>Other</option>  
</select>
```

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

```
</form>

<div class="output" id="output" style="display:none">
<h2>Registered Student Details</h2>
<p id="outName"></p>
<p id="outRoll"></p>
<p id="outEmail"></p>
<p id="outCourse"></p>
<p id="outGender"></p>
</div>
</div>
```

```
<script>
function login() {
    let u=document.getElementById("username").value;
    let p=document.getElementById("password").value;

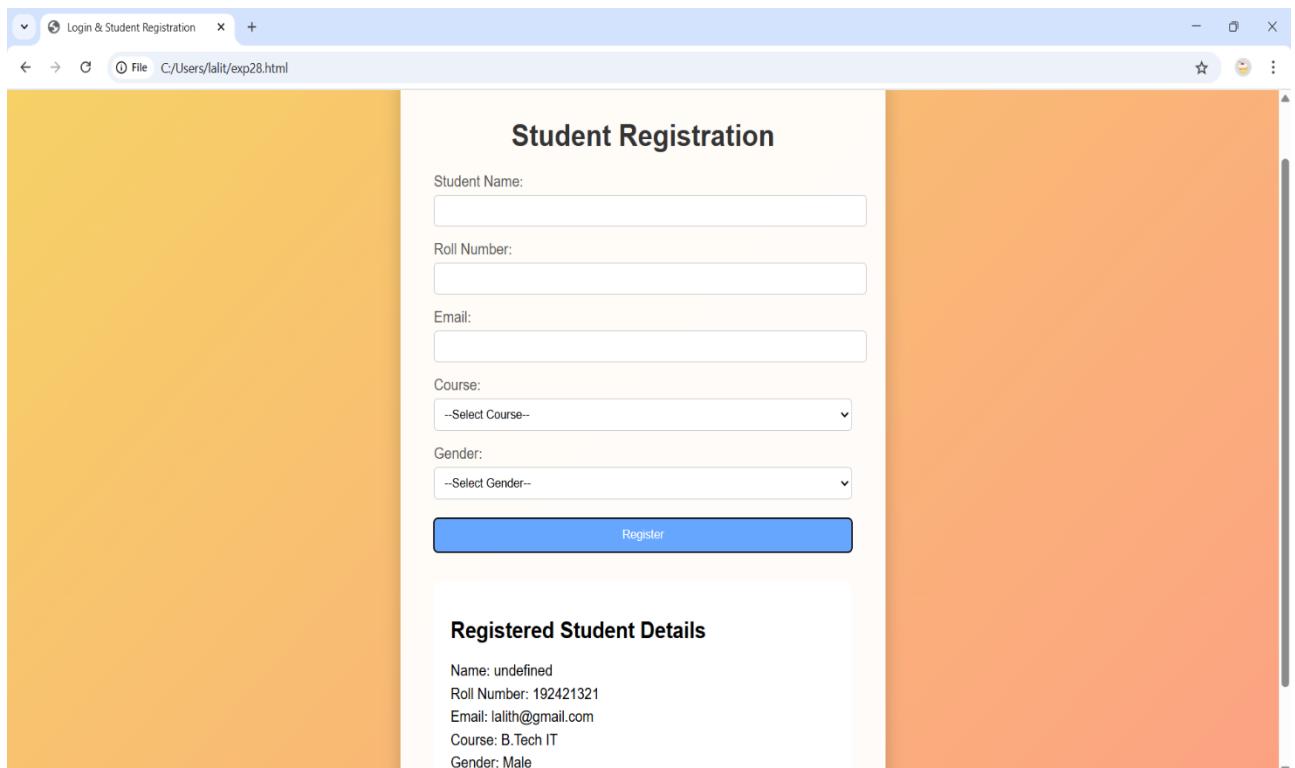
    if(u==="admin" && p==="12345"){
        loginBox.style.display="none";
        successBox.style.display="block";

        // Show registration after 2 seconds
        setTimeout(()=>{
            successBox.style.display="none";
            registerBox.style.display="block";
        },2000);
    }else{
        loginError.innerHTML="Invalid Username or Password";
    }
}
```

```
}
```

```
document.getElementById("studentForm").addEventListener("submit",function(e){  
e.preventDefault();  
  
outName.innerText="Name: "+name.value;  
outRoll.innerText="Roll Number: "+roll.value;  
outEmail.innerText="Email: "+email.value;  
outCourse.innerText="Course: "+course.value;  
outGender.innerText="Gender: "+gender.value;  
output.style.display="block";  
this.reset();  
});  
</script>  
</body>  
</html>
```

OUTPUT :



30. Create a registration form for employee database management and display the collected document by using the JSP program.

CODE :

```
<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Employee Registration Form</title>
<style>
body {
    font-family: Arial, sans-serif;
    background: linear-gradient(135deg, #0be707, #de5321);
    display: flex;
    justify-content: center;
    align-items: flex-start;
    padding: 50px 0;
    margin: 0;
}
.container {
    background-color: rgba(255,255,255,0.95);
    padding: 30px 40px;
    border-radius: 15px;
    box-shadow: 0 8px 20px rgba(0,0,0,0.2);
    max-width: 500px;
    width: 100%;
}
h1 {
    text-align: center;
```

```
color: #333;  
}  
  
label {  
    display: block;  
    margin-top: 15px;  
    color: #555;  
}  
  
input, select {  
    width: 100%;  
    padding: 8px 10px;  
    margin-top: 5px;  
    border-radius: 5px;  
    border: 1px solid #ccc;  
}  
  
button {  
    margin-top: 20px;  
    width: 100%;  
    padding: 10px;  
    background-color: #66a6ff;  
    color: white;  
    border: none;  
    border-radius: 5px;  
    cursor: pointer;  
}  
  
button:hover {  
    background-color: #557de8;  
}  
  
.output {  
    margin-top: 30px;
```

```
background-color: rgba(255,255,255,0.9);
padding: 20px;
border-radius: 10px;
box-shadow: 0 4px 15px rgba(0,0,0,0.2);

}

.output p {
    font-size: 1.1em;
    color: #333;
    margin: 8px 0;
}

</style>

</head>

<body>

<div class="container">

    <h1>Employee Registration</h1>

    <form id="employeeForm">

        <label for="name">Employee Name:</label>
        <input type="text" id="name" name="name" required>

        <label for="id">Employee ID:</label>
        <input type="text" id="id" name="id" required>

        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>

        <label for="department">Department:</label>
        <select id="department" name="department" required>

            <option value="">--Select Department--</option>
            <option value="HR">HR</option>
            <option value="IT">IT</option>
            <option value="Finance">Finance</option>
            <option value="Marketing">Marketing</option>

    </form>
</div>

```

```
</select>

<label for="position">Position:</label>

<input type="text" id="position" name="position" required>

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

</form>

<div class="output" id="output" style="display:none;">

<h2>Registered Employee Details</h2>

<p id="outName"></p>

<p id="outID"></p>

<p id="outEmail"></p>

<p id="outDept"></p>

<p id="outPosition"></p>

</div>

</div>

<script>

document.getElementById('employeeForm').addEventListener('submit', function(e) {

  e.preventDefault(); // Prevent page reload

  // Collect form values

  let name = document.getElementById('name').value;

  let id = document.getElementById('id').value;

  let email = document.getElementById('email').value;

  let department = document.getElementById('department').value;

  let position = document.getElementById('position').value;

  // Display values

  document.getElementById('outName').innerText = "Name: " + name;

  document.getElementById('outID').innerText = "Employee ID: " + id;

  document.getElementById('outEmail').innerText = "Email: " + email;

  document.getElementById('outDept').innerText = "Department: " + department;

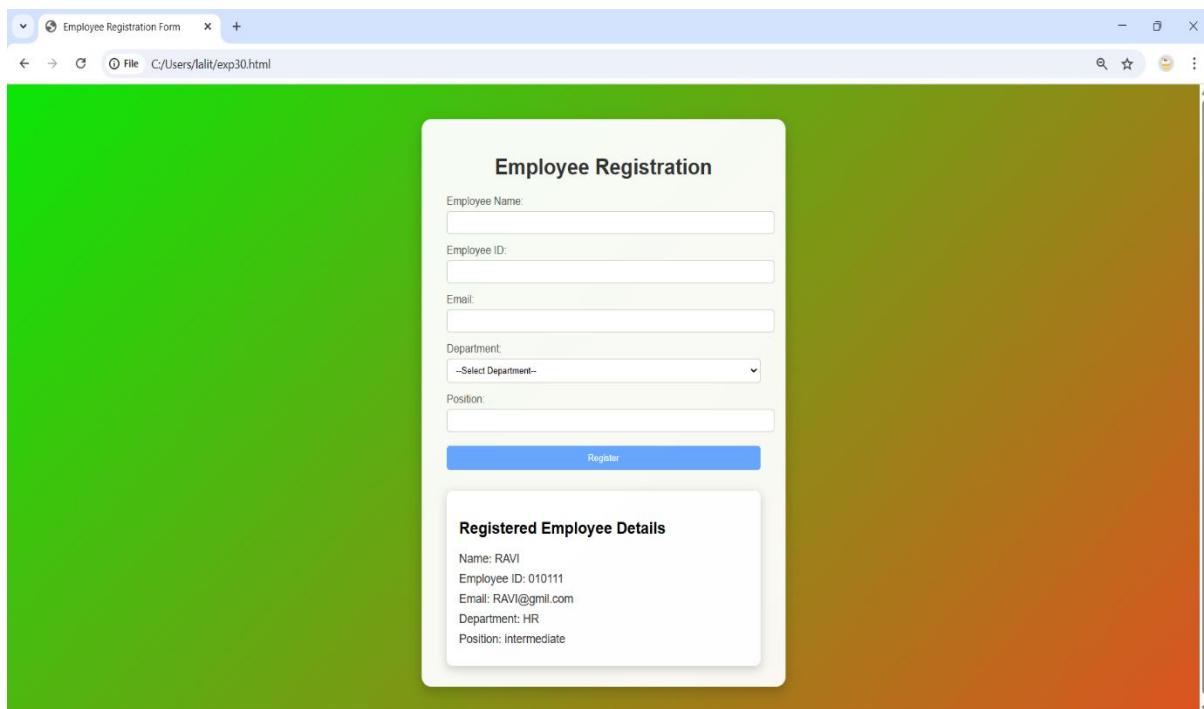
  document.getElementById('outPosition').innerText = "Position: " + position;
})
```

```

document.getElementById('output').style.display = "block";
// Optionally reset form
this.reset();
});
</script>
</body>
</html>

```

OUTPUT :



32. Create a web page, display the html element with more animated effects.

CODE :

```

<!DOCTYPE html>

<html lang="en">
<head>
<meta charset="UTF-8">
<title>Animated HTML Elements</title>
<style>
/* Reset */
* {

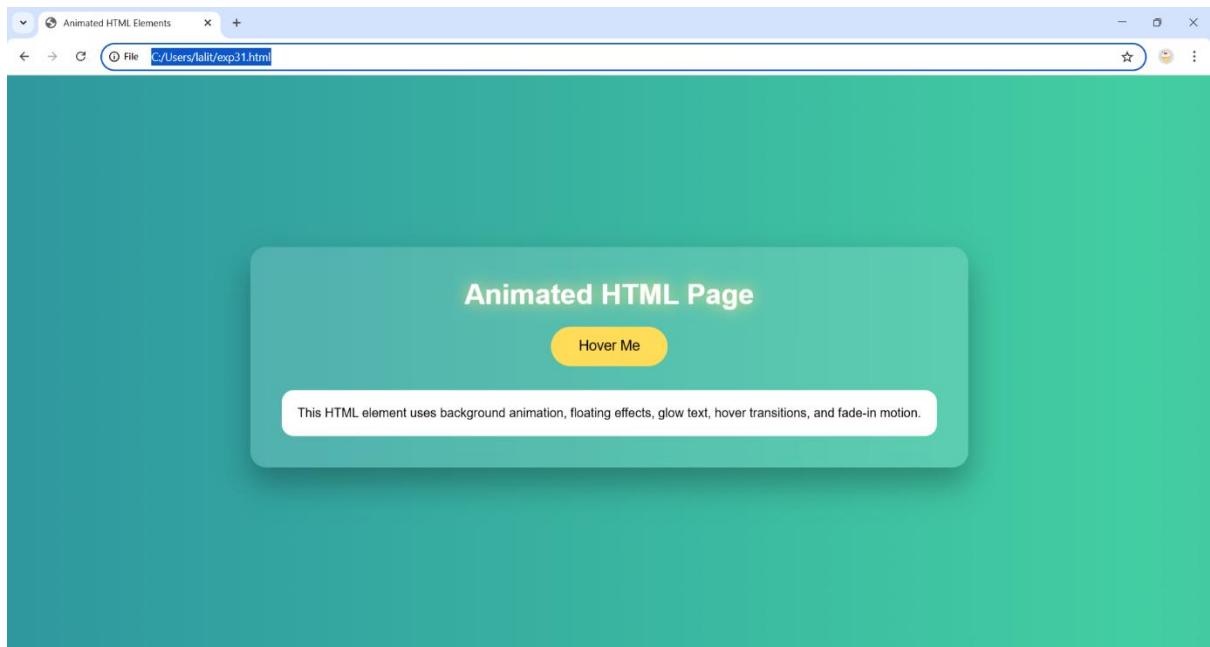
```

```
margin:0;  
padding:0;  
box-sizing:border-box;  
font-family: Arial, sans-serif;  
}  
  
/* Background animation */  
  
body{  
height:100vh;  
background: linear-gradient(270deg,#667eea,#764ba2,#43cea2,#185a9d);  
background-size: 600% 600%;  
animation: bgMove 12s ease infinite;  
display:flex;  
justify-content:center;  
align-items:center;  
}  
  
/* Container */  
  
.container{  
background: rgba(255,255,255,0.15);  
backdrop-filter: blur(10px);  
padding:40px;  
border-radius:20px;  
text-align:center;  
box-shadow:0 20px 40px rgba(0,0,0,0.3);  
animation: floatBox 4s ease-in-out infinite;  
}  
  
/* Heading animation */  
  
h1{  
color:#fff;  
font-size:36px;
```

```
margin-bottom:20px;  
animation: glow 2s infinite alternate;  
}  
/* Button animation */  
  
button{  
padding:15px 35px;  
border:none;  
border-radius:30px;  
background:#ffdd59;  
font-size:18px;  
cursor:pointer;  
transition: transform 0.3s, box-shadow 0.3s;  
}  
  
button:hover{  
transform: scale(1.1) rotate(2deg);  
box-shadow:0 10px 20px rgba(0,0,0,0.4);  
}  
/* Card animation */  
  
.card{  
margin-top:30px;  
padding:20px;  
border-radius:15px;  
background:#ffffff;  
animation: slideFade 2s ease;  
}  
/* Keyframes */  
  
@keyframes bgMove{  
0%{background-position:0% 50%;}  
50%{background-position:100% 50%;}
```

```
100%{background-position:0% 50%;}  
}  
  
@keyframes floatBox{  
0%{transform:translateY(0);}  
50%{transform:translateY(-15px);}  
100%{transform:translateY(0);}  
}  
  
@keyframes glow{  
from{text-shadow:0 0 10px #fff;}  
to{text-shadow:0 0 25px #ffdd59;}  
}  
  
@keyframes slideFade{  
from{opacity:0; transform:translateY(30px);}  
to{opacity:1; transform:translateY(0);}  
}  
  
</style>  
  
</head>  
  
<body>  
  
<div class="container">  
    <h1>Animated HTML Page</h1>  
    <button>Hover Me</button>  
    <div class="card">  
        <p>This HTML element uses background animation, floating effects, glow text, hover transitions, and fade-in motion.</p>  
    </div>  
</div>  
</body>  
</html>
```

OUTPUT :



33. Create a student's form registration for job portal and validate using internal Java Script.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>Job Portal – Login & Registration</title>
<style>
body{
    font-family: Arial;
    background: linear-gradient(120deg,#74ebd5,#9face6);
    display:flex;
    justify-content:center;
    align-items:center;
    height:100vh;
}

.box{
```

```
background:#fff;
padding:30px;
width:360px;
border-radius:12px;
box-shadow:0 10px 25px rgba(0,0,0,0.3);
}

#registrationBox{
    display:none;
}

h2{
    text-align:center;
}

input, select{
    width:100%;
    padding:10px;
    margin:10px 0;
}

button{
    width:100%;
    padding:12px;
    background:#4CAF50;
    color:white;
    border:none;
    cursor:pointer;
}

/* Message boxes */

.error-box{
    display:none;
    margin-top:10px;
```

```
padding:10px;  
border:2px solid red;  
background:#ffe6e6;  
color:red;  
text-align:center;  
border-radius:8px;  
}  
  
.success-box{  
display:none;  
margin-top:10px;  
padding:10px;  
border:2px solid green;  
background:#e6ffe6;  
color:green;  
text-align:center;  
border-radius:8px;  
}  
</style>  
<script>  
function validateLogin(){  
let user = document.getElementById("username").value;  
let pass = document.getElementById("password").value;  
if(user === "student" && pass === "12345"){  
document.getElementById("errorBox").style.display="none";  
document.getElementById("successBox").style.display="block";  
document.getElementById("successBox").innerHTML="Login Successful";  
  
setTimeout(function(){  
document.getElementById("loginBox").style.display="none";  
},  
3000);  
}  
}  
</script>
```

```
document.getElementById("registrationBox").style.display="block";
},1500);
}

else{
    document.getElementById("errorBox").style.display="block";
    document.getElementById("errorBox").innerHTML="Invalid Username or Password";
}

return false;
}

function validateForm(){
if(document.getElementById("name").value==""){
    alert("Enter Name"); return false;
}

if(document.getElementById("email").value==""){
    alert("Enter Email"); return false;
}

if(document.getElementById("mobile").value.length!=10){
    alert("Enter valid Mobile Number"); return false;
}

alert("Registration Successful");
return false;
}

</script>
</head>
<body>
<!-- LOGIN BOX -->
<div class="box" id="loginBox">
<h2>Login</h2>
```

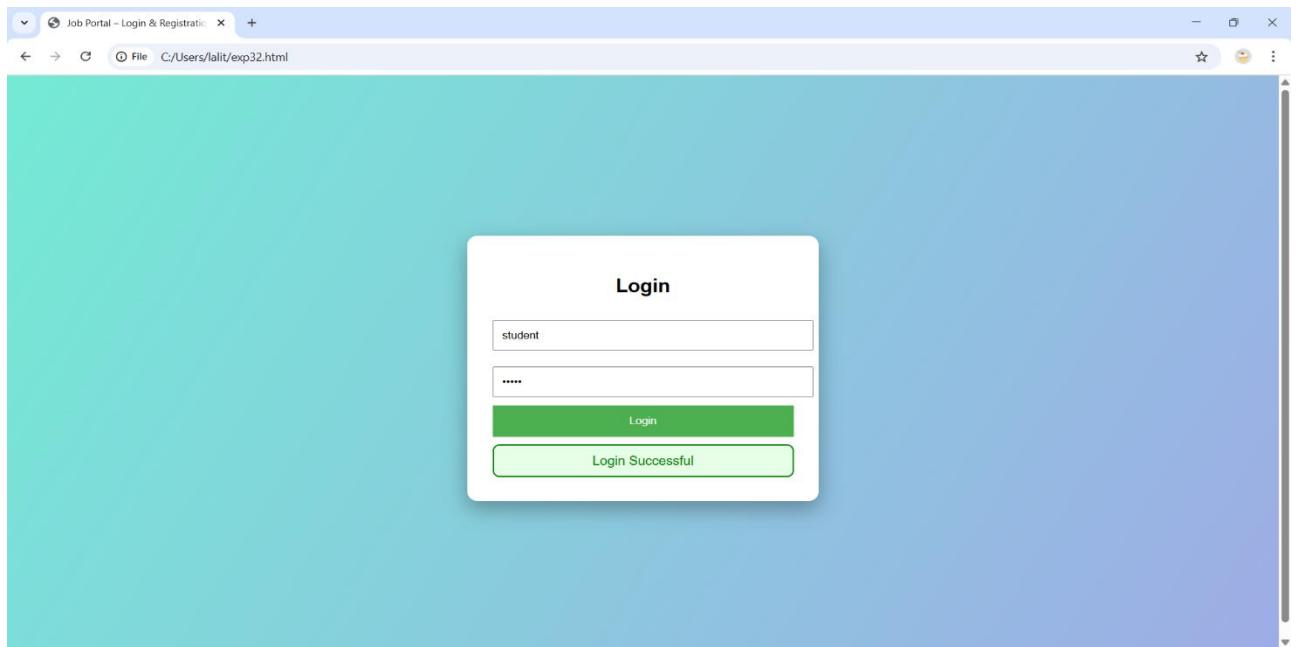
```
<form onsubmit="return validateLogin()">
    <input type="text" id="username" placeholder="Username">
    <input type="password" id="password" placeholder="Password">
    <button type="submit">Login</button>
</form>

<div class="success-box" id="successBox"></div>
<div class="error-box" id="errorBox"></div>
</div>

<!-- REGISTRATION BOX -->
<div class="box" id="registrationBox">
    <h2>Student Registration</h2>
    <form onsubmit="return validateForm()">
        <input type="text" id="name" placeholder="Student Name">
        <input type="email" id="email" placeholder="Email">
        <input type="number" id="mobile" placeholder="Mobile Number">
        <select>
            <option>Select Degree</option>
            <option>B.Tech</option>
            <option>BCA</option>
            <option>MCA</option>
        </select>
        <button type="submit">Register</button>
    </form>
</div>

</body>
</html>
```

OUTPUT :



34. To store multiple data items in a single variable we use a list. Describe the list of items which we use during the time of travel. Implement it in both ordered and unordered lists.

CODE :

```
<!DOCTYPE html>

<html>
<head>
<title>Travel Items List</title>
```

```
<style>
body{
    font-family: Arial;
    background:#f0f8ff;
    padding:40px;
}
```

```
h2{
    color:#2c3e50;
```

```
}
```

```
ul, ol{  
background:#ffffff;  
padding:20px 40px;  
width:300px;  
border-radius:10px;  
box-shadow:0 5px 15px rgba(0,0,0,0.2);  
margin-bottom:30px;  
}  
</style>
```

```
</head>
```

```
<body>
```

```
<h2>Unordered List – Travel Items</h2>
```

```
<ul>  
<li>Clothes</li>  
<li>Toothbrush & Toothpaste</li>  
<li>Mobile Phone</li>  
<li>Charger</li>  
<li>Wallet</li>  
<li>Water Bottle</li>  
</ul>
```

```
<h2>Ordered List – Travel Items</h2>
```

```
<ol>  
<li>Pack Clothes</li>  
<li>Carry Identity Proof</li>
```

```
<li>Keep Mobile Phone</li>
<li>Take Charger</li>
<li>Carry Wallet</li>
<li>Take Medicines</li>
</ol>
</body>
</html>
```

OUTPUT :

