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உள்ளடக்கம் அல்லது கட்டமைப்பில் ஏதேனும் ஆட்சேபனைகள் இருந்தால், நீங்கள் மாற்று பதிப்பை உருவாக்கி அதை குழுவுடன் பகிர்ந்து கொள்ளலாம். **அதன் உள்ளடக்கங்களுடன் நீங்கள் உடன்படவில்லை என்றால் பயன்படுத்த வேண்டாம்**.

यह पीडीएफ मेरी विशिष्ट इच्छाओं और आवश्यकताओं के अनुसार बनाया गया था। सभी उपयोगकर्ताओं को सलाह दी जाती है कि वे प्रिंट करने से पहले दस्तावेज़ की अच्छी तरह से समीक्षा करें और अपने स्वयं के निर्णय के आधार पर कोई भी आवश्यक परिवर्तन करें। मैं दूसरों की गलतियों, गलतफहमियों या चूक के लिए जिम्मेदार नहीं हूँ।

यदि आपको सामग्री या संरचना पर कोई आपत्ति है, तो आप एक वैकल्पिक संस्करण बना सकते हैं और इसे टीम के साथ साझा कर सकते हैं। **यदि आप इसकी सामग्री से सहमत नहीं हैं तो इसका उपयोग न करें।**

THANK YOU

PROGRAM:

```html
<!DOCTYPE html>
<html>
 <head>
  <title>Simple HTML Web Page</title>
 </head>
 <body>
  <h1>Heading 1</h1>
  <h2>Heading 2</h2>
  <h3>Heading 3</h3>
  <h4>Heading 4</h4>
  <h5>Heading 5</h5>
  <h6>Heading 6</h6>
  <p>This is the First paragraph.</p>
  <p>This is the Second paragraph.</p>
  <h1>Logical Tags :</h1>
  <h2>
    Logical Tags are used in HTML to display the text according to the logical
    styles. They are,
  </h2>
  Welcome to <abbr title="TrackMyClass by Bolt"> TrackMyClass</abbr>
  <br />
  This is
  <acronym title=" TrackMyClass by Bolt "> TrackMyClass </acronym>
  <br />
  <address>SRM Nagar, Kattankulathur – 603203, Tamil Nadu.</address>
  <br />
  <cite> trackmyclass.site </cite> is my favourite website. <br />
  <code> Sample code: system.out.println(); </code><br />
  <del> This contains deleted content.</del><br />
  <ins> Newly inserted content.</ins><br />
  <kbd> TrackMyClass - This is a Keyboard input </kbd><br />
  <h1>Physical Tags:</h1>
  <h2>
    Physical Tags are used in HTML to provide actual physical formatting to
    the text. They are,
  </h2>
  Text without any formatting <br />
  <b> TrackMyClass- This is Bold text </b> <br />
  <big> TrackMyClass - This is BIG text </big> <br />
  <i> TrackMyClass - This is Italic text </i> <br />
  <small> TrackMyClass - This is Small text </small> <br />
  1<sup>st </sup> <br />
  H<sub>2</sub>O <br />
  <u> TrackMyClass - This is underlined text</u> <br />
  <h2>Unordered HTML List:</h2>
  <ul>
```

```html
    <li>Sangetha Priya</li>
    <li>Nasreen</li>
    <li>Raji</li>
  </ul>
  <h2>Ordered HTML List:</h2>
  <ol>
    <li>Sangetha Priya</li>
    <li>Nasreen</li>
    <li>Raji</li>
  </ol>
  <h2>A Description List</h2>
  <dl>
    <dt>Coffee</dt>
    <dd>- black hot drink</dd>
    <dt>Milk</dt>
    <dd>- white cold drink</dd>
  </dl>
 </body>
</html>
```

PROGRAM:

```html
<!DOCTYPE html>
<html>
  <head>
    <title>HTML Web Page with Hyper Links</title>
  </head>
  <body>
    <h2>Hyper Links:</h2>
    <p id="opening">
      Hyperlinks are utilized by a web browser to move from one page to another.
      However, you can also move to a different area on the same page. The
      following sections show users how to link to the top, bottom, or a
      specific section on a web page. Choose a method from the following list,
      or explore both options.</p>
    <h2>Hyper Links: Absolute URLs</h2>
    <a href="https://trackmyclass.site/">Visit TrackMyClass</a><br />
    <a href="https://www.srmvalliammai.ac.in">Visit SRMVEC</a><br />
    <h2>Hyper Links: Relative URLs</h2>
    <a href="elements.html">Link to visit TrackMyClass</a>
    <h2>Image:</h2>
    <img
      src="https://trackmyclass.site/admin.jpg"
      alt="Computer man"
      width="70px"
      height="70px"
    /><br />
    <h2>Image with Hyper Link:</h2>
    <a href=" elements.html">
      <img
        src="https://trackmyclass.site/admin.jpg"
        alt="HTML Web Page"
        width="42px"
        height="42px"
      />
    </a>
    <h2>September Month Report Link</h2>
    <a href="thttps://trackmyclass.site/September/142222104073.pdf"
      >Click the link to download the Syllabus</a
    ><br />
    <h2>Same Page Link:</h2>
    <a href="#top">Top</a><br />
    <a href="#bottom">Bottom</a>
    <h2>Same Page Link: using id selector</h2>
    <a href="#opening">Take me to the opening paragraph.</a>
  </body>
</html>
```

PROGRAM:

FRAMES

Tag.html

```html
<html>
<head>
   <title>Frame tag</title>
</head>
<frameset cols="25%,50%,25%">
   <frame src="frame1.html">
   <frame src="frame2.html">
   <frame src="frame3.html"></frame>
</frameset>
</html>
```

frame1.html

```html
<html>
 <head>
   <style>
     div {
       background-color: #7fffd4;
       height: 500px;    }
   </style>
 </head>
 <body>
   <div>
     <h2>This is first frame</h2>
   </div>
 </body>
</html>
```

frame2.html

```html
<html>
 <head>
   <style>
     div {
       background-color: #2f4f4f;
       height: 500px;    }
   </style>
 </head>
 <body>
   <div>
     <h2>This is Second frame</h2>
   </div>
 </body>
</html>
```

frame3.html

```html
<html>
  <head>
    <style>
     div {
       background-color: #c1ffc1;
       height: 500px;    }
    </style>
  </head>
  <body>
   <div>
     <h2>This is third frame</h2>
   </div>
  </body>
</html>
```

NAVIGATION FRAMES

NavigationFrame.html

```html
<html>
  <head>
   <title>Navigation Frame Example</title>
  </head>
  <body>
   <a href="Frame1.html" target="showframe">Frame A</a><br /><br />
   <a href="Frame2.html" target="showframe">Frame B</a>
  </body>
</html>
```

Navigation.html

```html
<html>
<head>
<title> Navigation Frame tag</title>
</head>
<frameset cols ="100,*">
   <frame src ="NavigationFrame.html">
   <frame src ="Frame1.html" name="showframe">
   <frame src ="Frame2.html" name="showframe">
</frameset>
</html>
```

FLOATING FRAMES

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Floating Frame Example</title>
  </head>
  <body>
    <h1 align="center">Floating Frame Example</h1>
    <iframe
      name="float1"
      src="hyperlink.html"
      width="350"
      height="200"
      align="left"
    >
    </iframe>
    <p>
      This is a simple example of how floating frames are used. Notice that in
      many ways the floating frame acts very similar to an inline image.
      Floating frames act like embedded objects in many ways.
    </p>
  </body>
</html>
```

INLINE FRAMES

```html
<!DOCTYPE html>
<html>
  <body>
    <h1>IFRAME Element</h1>
    <p>An iframe with default borders:</p>
    <iframe src="hyperlink.html" width="100%" height="300"> </iframe>
    <p>An iframe with a thin black border:</p>
    <iframe
      src="hyperlink.html"
      width="100%"
      height="300"
      style="border: 1px solid red"
    >
    </iframe>
    <p>An iframe with no borders:</p>
    <iframe src="hyperlink.html" width="100%" height="300" style="border: none">
    </iframe>
  </body>
</html>
```

PROGRAM:

```html
<html>
<head>
    <title>Registration Form</title>
    <style>
        body {
            background-color: #00FF66;
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
        }
        .form-container {
            text-align: center;
        }
        table {
            margin: 0 auto;
            border-collapse: collapse;
        }
        th, td {
            padding: 10px;
        }
    </style>
</head>
<body>
    <div class="form-container">
        <h2><u>STUDENT REGISTRATION FORM</u></h2>
        <form action="thankyou.html" name="f" method="post" autocomplete="on">
            <table border="1">
                <tr>
                    <th>First Name:</th>
                    <td><input type="text" name="id1" id="id1" size="30" maxlength="20" /></td>
                </tr>
                <tr>
                    <th>Last Name:</th>
                    <td><input type="text" name="id2" id="id2" size="30" maxlength="20" /></td>
                </tr>
                <tr>
                    <th>Valid Email:</th>
                    <td><input type="text" name="id3" id="id3" size="70" maxlength="50" /></td>
                </tr>
                <tr>
                    <th>Password:</th>
                    <td><input type="password" name="id4" id="id4" size="50" maxlength="10" />
                        </td>
                </tr>
```

```
<tr>
   <th>Phone Number:</th>
   <td><input type="text" name="id5" id="id5" size="30" maxlength="11" /></td>
</tr>
<tr>
   <th>Address:</th>
   <td><textarea cols="50" rows="6" name="addr"></textarea></td>
</tr>
<tr>
   <th>Gender:</th>
   <td>
      <b>Male:</b><input type="radio" name="gender" id="r1" value="male" />
      <b>Female:</b><input type="radio" name="gender" id="r1" value="female" />
   </td>
</tr>
<tr>
   <th>Date of Birth:</th>
   <td><input type="text" name="dob" /></td>
</tr>
<tr>
   <th>Qualifications:</th>
   <td>
      <b>SSC</b><input type="checkbox" name="a1" id="a1" />
      <b>Percentage:</b><input type="text" name="id9" id="id9" size="5" /><br />
      <b>HSC</b><input type="checkbox" name="a1" id="a1" />
      <b>Percentage:</b><input type="text" name="id10" id="id10" size="5" />
      <br />
      <b>BE</b><input type="checkbox" name="a1" id="a1" />
      <b>Percentage:</b><input type="text" name="id11" id="id11" size="5" />
      <br />
      <b>ME</b><input type="checkbox" name="a1" id="a1" />
      <b>Percentage:</b><input type="text" name="id12" id="id12" size="5" />
      <br />
   </td>
</tr>
<tr>
   <th>Experience:</th>
   <td>
      <select name="sc1" id="sc1" size="1">
         <option>0-1 Year</option>
         <option>2-3 Years</option>
         <option>3-5 Years</option>
         <option>More than 5 Years</option>
      </select>
   </td>
</tr>
<tr>
   <th>Upload Photo:</th>
```

```html
        <td><input type="file" /></td>
      </tr>
      <tr>
        <td colspan="2">
          <center>
            <input type="submit" value="Submit" onClick="alert('Your Application has been Submitted');" />
              <input type="reset" value="Reset" onClick="alert('Your Application is not Submitted');" />
          </center>
        </td>
      </tr>
    </table>
  </form>
  </div>
</body>
</html>
```

PROGRAM:

Css_Inline.html

```html
<!DOCTYPE html>
<html>
 <head>
  <title>Inline CSS Example</title>
 </head>
 <body style="background-color: blue">
  <h1 style="background-color: red; text-align: center">This is a heading</h1>
  <p style="color: green">This is a paragraph</p>
 </body>
</html>
```

Css_Internal.html

```html
<!DOCTYPE html>
<html>
 <head>
  <title>Internal CSS Example</title>
  <style>
   body {
    background-color: powderblue;
   }
   h1 {
    color: blue;
   }
   p {
    color: red;
   }
  </style>
 </head>
 <body>
  <h1>This is a heading</h1>
  <p>This is a paragraph</p>
 </body>
</html>
```

Css_External.html

```html
<!DOCTYPE html>
<html>
  <head>
    <link href="mystyle.css" rel="stylesheet" type="text/css" />
  </head>
  <body>
    <h1>This is a heading</h1>
    <p>This is a paragraph.</p>
  </body>
</html>
```

Mystyle.css

```css
body {
  background-color: green;
}
h1 {
  color: navy;
  font-size: 50px;
  margin-left: 20px;
}
p {
  font-size: 20px;
  font-size: 30px;
  margin-left: 70px;
}
```

PROGRAM:

Sorting.html

```html
<!DOCTYPE html>
<html>
 <body>
  <h2>JavaScript Array Sort</h2>
  <p>Click the button to sort the array in ascending order.</p>
  <button onclick="myFunction()">Try it</button>
  <p id="demo"></p>
  <script>
   const values = [40, 100, 1, 5, 25, 10];
   document.getElementById("demo").innerHTML = values;
   function myFunction() {
    values.sort(function (a, b) {
      return a - b;
    });
    document.getElementById("demo").innerHTML = values;
   }
  </script>
 </body>
</html>
```

PROGRAM:

DHTML_Methods.html

```html
<!DOCTYPE html>
<html>
 <body>
  <h2>JavaScript String Properties and Methods</h2>
  <p>The length property returns the length of a string:</p>
  <p id="demo"></p>
  <script>
   let text = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";
   document.getElementById("demo").innerHTML = text.length;
  </script>
  <p>
   The slice() method extract a part of a string and returns the extracted
   parts in a new string:
  </p>
  <p id="demo1"></p>
  <script>
   let str = "Apple, Banana, Kiwi";
   document.getElementById("demo1").innerHTML = str.slice(7, 13);
  </script>
  <p>
   The substring() method extract a part of a string and returns the
   extracted parts in a new string. The difference is that substring() cannot
   accept negative indexes.:
  </p>
  <p id="demo2"></p>
  <script>
   let str2 = "Apple, Banana, Kiwi";
   document.getElementById("demo2").innerHTML = str2.substring(7, 13);
  </script>
  <p>Replace "TrackMyClass" with "TrackMyClass by BoLt" in the paragraph below:</p>
  <button onclick="myFunction()">Try it</button>
  <p id="demo3">Please visit TrackMyClass!</p>
  <script>
   function myFunction() {
     let text = document.getElementById("demo3").innerHTML;
     document.getElementById("demo3").innerHTML = text.replace(
       "TrackMyClass",
       "TrackMyClass by BoLt"
     );
    }
  </script>
  <p>Convert string to upper case:</p>
  <button onclick="myFunction2()">Try it</button>
```

```html
<p id="demo4">trackmyclass!</p>
<script>
 function myFunction2() {
   let text = document.getElementById("demo4").innerHTML;
   document.getElementById("demo4").innerHTML = text.toUpperCase();
 }
</script>
<p>The concat() method joins two or more strings:</p>
<p id="demo5"></p>
<script>
 let text1 = "TrackMyClass";
 let text2 = "BoLt!";
 let text3 = text1.concat(" ", text2);
 document.getElementById("demo5").innerHTML = text3;
</script>
<h2>JavaScript Math.round()</h2>
<p>Math.round(x) returns the value of x rounded to its nearest integer:</p>
<p id="demo6"></p>
<script>
ocument.getElementById("demo6").innerHTML = Math.round();
</script>
<h2>JavaScript Math.ceil()</h2>
<p>
 Math.ceil() rounds a number <strong>up</strong> to its nearest integer:
</p>
<p id="demo7"></p>
<script>
 document.getElementById("demo7").innerHTML = Math.ceil(17.03);
</script>
<h2>JavaScript Math.pow()</h2>
<p>Math.pow(x,y) returns the value of x to the power of y:</p>
<p id="demo8"></p>
<script>
 document.getElementById("demo8").innerHTML = Math.pow(17, 3);
</script>
<h2>JavaScript Math.sqrt()</h2>
<p>Math.sqrt(x) returns the square root of x:</p>
<p id="demo9"></p>
<script>
 document.getElementById("demo9").innerHTML = Math.sqrt(1703);
</script>
<p>Math.min() returns the lowest value in a list of arguments:</p>
<p id="demo10"></p>
<script>
 document.getElementById("demo10").innerHTML = Math.min(0,150,30,20,-8,-200);
</script>
<h2>JavaScript Math.max()</h2>
<p>Math.max() returns the highest value in a list of arguments.</p>
```

```html
    <p id="demo11"></p>
    <script>
      document.getElementById("demo11").innerHTML = Math.max(0,150,30,20,-8,-200);
    </script>
    <h2>JavaScript Math.random()</h2>
    <p>Math.random() returns a random number between 0 and 1:</p>
    <p id="demo12"></p>
    <script>
      document.getElementById("demo12").innerHTML = Math.random();
    </script>
  </body>
</html>
```

PROGRAM:

DHTML_Methods_1.html

```html
<!DOCTYPE html>
<html>
 <body>
  <h2>JavaScript Array Objects and Date Object's predefined methods</h2>
  <h2>toString()</h2>
  <p>The toString() method returns an array as a comma separated string:</p>
  <p id="demo"></p>
  <script>
   const fruits = ["Banana", "Orange", "Apple", "Mango"];
   document.getElementById("demo").innerHTML = fruits.toString();
  </script>
  <h2>join()</h2>
  <p>The join() method joins array elements into a string.</p>
  <p>
   It this example we have used " * " as a separator between the elements:
  </p>
  <p id="demo1"></p>
  <script>
   const fruits1 = ["Banana", "Orange", "Apple", "Mango"];
   document.getElementById("demo1").innerHTML = fruits1.join(" * ");
  </script>
  <h2>pop()</h2>
  <p>The pop() method removes the last element from an array.</p>
  <p id="demo2"></p>
  <p id="demo3"></p>
  <script>
   const fruits2 = ["Banana", "Orange", "Apple", "Mango"];
   document.getElementById("demo2").innerHTML = fruits2;
   fruits2.pop();
   document.getElementById("demo3").innerHTML = fruits2;
  </script>
  <h2>push()</h2>
  <p>The push() method appends a new element to an array.</p>
  <button onclick="myFunction()">Try it</button>
  <p id="demo4"></p>
  <script>
   const fruits3 = ["Banana", "Orange", "Apple", "Mango"];
   document.getElementById("demo4").innerHTML = fruits3;
   function myFunction() {
    fruits3.push("Kiwi");
    document.getElementById("demo4").innerHTML = fruits3;
   }
```

```html
    </script>
    <h2>JavaScript new Date()</h2>
    <p>
      Using new Date(), creates a new date object with the current date and
      time:
    </p>
    <p id="demo5"></p>
    <script>
      const currentDate = new Date();
      document.getElementById("demo5").innerHTML = currentDate;
    </script>
    <h2>JavaScript new Date()</h2>
    <p>A Date object can be created with a specified date and time:</p>
    <p id="demo6"></p>
    <script>
      const specificDate = new Date("October 13, 2014 11:13:00");
      document.getElementById("demo6").innerHTML = specificDate;
    </script>
    <h2>JavaScript toDateString()</h2>
    <p>The toDateString() method converts a date to a date string:</p>
    <p id="demo7"></p>
    <script>
      const d = new Date();
      document.getElementById("demo7").innerHTML = d.toDateString();
    </script>
  </body>
</html>
```

PROGRAM:

Exception_Handlding.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>JavaScript Try-Catch Example</title>
</head>
<body>
    <h2>JavaScript Try Catch</h2>
    <p>Please input a number between 5 and 10:</p>
    <input id="demo" type="text" />
    <button type="button" onclick="myFunction()">Test Input</button>
    <p id="p01"></p>

    <script>
        function myFunction() {
            const message = document.getElementById("p01");
            message.innerHTML = ""; // Clear previous messages
            let x = document.getElementById("demo").value;

            try {
                if (x === "") throw "empty";
                if (isNaN(x)) throw "not a number";
                x = Number(x);
                if (x < 5) throw "too low";
                if (x > 10) throw "too high";

                // If input is valid, display success message
                message.innerHTML = "Input is valid: " + x;
            } catch (err) {
                message.innerHTML = "Input is " + err;
            }
        }
    </script>
</body>
</html>
```

PROGRAM:

Calendar.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>HTML CSS JavaScript Calendar</title>
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.2/css/all.css">
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="main">
        <div class="sideb">
            <div class="header">
                <i class="fa fa-angle-left" aria-hidden="true"></i>
                <span>
                    <span class="month"></span>
                    <span class="year"></span>
                </span>
                <i class="fa fa-angle-right" aria-hidden="true"></i>
            </div>
            <div class="calendar">
                <table>
                    <thead>
                        <tr class="weekdays">
                            <th data-weekday="sun" data-column="0">Sun</th>
                            <th data-weekday="mon" data-column="1">Mon</th>
                            <th data-weekday="tue" data-column="2">Tue</th>
                            <th data-weekday="wed" data-column="3">Wed</th>
                            <th data-weekday="thu" data-column="4">Thu</th>
                            <th data-weekday="fri" data-column="5">Fri</th>
                            <th data-weekday="sat" data-column="6">Sat</th>
                        </tr>
                    </thead>
                    <tbody>
                        <!-- Placeholder for calendar days, populated by JavaScript -->
                        <tr class="days" data-row="0">
                            <td data-column="0"></td>
                            <td data-column="1"></td>
                            <td data-column="2"></td>
                            <td data-column="3"></td>
                            <td data-column="4"></td>
                            <td data-column="5"></td>
                            <td data-column="6"></td>
                        </tr>
```

```html
        <tr class="days" data-row="1">
          <td data-column="0"></td>
          <td data-column="1"></td>
          <td data-column="2"></td>
          <td data-column="3"></td>
          <td data-column="4"></td>
          <td data-column="5"></td>
          <td data-column="6"></td>
        </tr>
        <tr class="days" data-row="2">
          <td data-column="0"></td>
          <td data-column="1"></td>
          <td data-column="2"></td>
          <td data-column="3"></td>
          <td data-column="4"></td>
          <td data-column="5"></td>
          <td data-column="6"></td>
        </tr>
        <tr class="days" data-row="3">
          <td data-column="0"></td>
          <td data-column="1"></td>
          <td data-column="2"></td>
          <td data-column="3"></td>
          <td data-column="4"></td>
          <td data-column="5"></td>
          <td data-column="6"></td>
        </tr>
        <tr class="days" data-row="4">
          <td data-column="0"></td>
          <td data-column="1"></td>
          <td data-column="2"></td>
          <td data-column="3"></td>
          <td data-column="4"></td>
          <td data-column="5"></td>
          <td data-column="6"></td>
        </tr>
        <tr class="days" data-row="5">
          <td data-column="0"></td>
          <td data-column="1"></td>
          <td data-column="2"></td>
          <td data-column="3"></td>
          <td data-column="4"></td>
          <td data-column="5"></td>
          <td data-column="6"></td>
        </tr>
        <!-- Repeat as necessary -->
    </tbody>
</table>
```

```html
            </div>
            <div class="showDate">
                <i class="fa fa-angle-double-right" aria-hidden="true"></i>
            </div>
        </div>
        <div class="right-wrapper">
            <div class="header"><span></span></div>
            <span class="day"></span>
            <span class="month"></span>
        </div>
    </div>
    <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
    <script src="function.js"></script>
</body>
</html>
```

style.css

```css
@import url("https://fonts.googleapis.com/css?family=Josefin+Sans&display=swap");

body, html {
    width: 100%;
    height: 100%;
    font-family: 'Josefin Sans', sans-serif;
    background-color: #B8F0FF;
    overflow: hidden;
    position: relative;
    outline: none;
    perspective: 1000px;
}

.main {
    position: absolute;
    width: 730px;
    height: 420px;
    top: 50%;
    left: 50%;
    box-sizing: border-box;
    transform: translate(-50%, -50%);
    transition: all 0.195s ease;
    transform-style: preserve-3d;
}

.main.is-rotated-left {
    transform: translate(-50%, -50%) rotateY(-4deg);
}

.main.is-rotated-right {
```

```css
        transform: translate(-50%, -50%) rotateY(4deg);
    }

    .main .sideb, .main .right-wrapper {
        background-color: white;
        width: 50%;
        float: left;
        height: 100%;
        box-sizing: border-box;
        padding: 25px;
        display: flex;
        flex-direction: column;
        justify-content: flex-start;
        align-items: center;
    }

    .main .header {
        padding: 15px 0 20px;
        display: flex;
        justify-content: space-between;
        width: 100%;
    }

    .main .header i {
        padding: 0 5px;
        cursor: pointer;
    }

    .main .header span {
        display: inline-block;
        margin: 0 3px;
        font-weight: 700;
    }

    .main .right-wrapper {
        background-color: #f05855;
        color: white;
        transform-origin: left center;
        transform: rotateY(110deg);
        transition: all 0.5s;
    }

    .main .right-wrapper.is-active {
        transform: rotateY(0deg);
    }

    .main .right-wrapper .header {
        text-align: left;
```

```css
      justify-content: center;
}

.main .right-wrapper .day {
    font-size: 12em;
    text-indent: -12px;
    display: block;
}

.main .right-wrapper .month {
    font-size: 2.5em;
}

.main .sideb .showDate {
    color: white;
    text-align: right;
    width: 100%;
}

.main .sideb .showDate i {
    cursor: pointer;
    background: #f05855;
    border-radius: 4px;
    padding: 8px 12px;
    transform: scale(1);
    transition: all 0.3s;
}

.main .sideb .showDate i.is-active {
    transform: scale(-1);
}

.main .sideb table {
    text-align: center;
    width: 90%;
    margin: 30px auto 0;
    table-layout: fixed;
    border-collapse: collapse;
}

.main .sideb table tbody:before {
    content: "-";
    display: block;
    line-height: 0.75em;
    color: transparent;
}

.main .sideb table th {
```

```css
    color: #f05855;
    font-size: 0.75em;
    text-transform: uppercase;
    margin-bottom: 10px;
}

.main .sideb table td {
    padding: 11px 5px;
    color: #ced0ce;
    font-size: 0.75em;
    transition: all 0.3s;
    position: relative;
}

.main .sideb table td::before {
    content: "";
    display: none;
    width: 50%;
    height: 2px;
    position: absolute;
    left: 50%;
    top: 100%;
    transform: translate(-50%, -8px);
    background-color: #f05855;
}

.main .sideb table td.currentDay::before {
    display: block;
}

.main .sideb table td.selectable {
    color: #303633;
    cursor: pointer;
}

.main .sideb table td.selectable:hover {
    background: #f05855;
    color: white;
}

.main .sideb table td.between {
    background-color: #333;
    color: white;
}

.main .sideb table td.active, .main .sideb table td.hover {
    background: #f05855;
    color: white;          }
```

script.js

```javascript
const monthNames = [
    "January", "February", "March", "April", "May", "June",
    "July", "August", "September", "October", "November", "December"
];

const weekdayNames = [
    "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday"
];

const weekdayShortNames = [
    "sun", "mon", "tue", "wed", "thu", "fri", "sat"
];

let monthDirection = 0;
let selectedDate = null;

function getNextMonth() {
    monthDirection++;
    const now = new Date();
    const current = new Date(now.getFullYear(), now.getMonth() + monthDirection, 1);
    initCalendar(getMonth(current));
}

function getPrevMonth() {
    monthDirection--;
    const now = new Date();
    const current = new Date(now.getFullYear(), now.getMonth() + monthDirection, 1);
    initCalendar(getMonth(current));
}

Date.prototype.isSameDateAs = function (pDate) {
    return (
        this.getFullYear() === pDate.getFullYear() &&
        this.getMonth() === pDate.getMonth() &&
        this.getDate() === pDate.getDate()
    );
};

function getMonth(currentDay) {
    const monthArray = [];
    const currentMonth = monthNames[currentDay.getMonth()];
    let day = new Date(currentDay);

    // Fill the month array with days
    for (let i = 1 - day.getDate(); i < 31; i++) {
```

```javascript
        day.setDate(currentDay.getDate() + i);
        if (monthNames[day.getMonth()] !== currentMonth) break;

        monthArray.push({
            date: {
                weekday: weekdayNames[day.getDay()],
                weekday_short: weekdayShortNames[day.getDay()],
                day: day.getDate(),
                month: monthNames[day.getMonth()],
                year: day.getFullYear(),
                current_day: new Date().isSameDateAs(day),
                date_info: new Date(day)
            }
        });
    }

    return monthArray;
}

function clearCalendar() {
    $("table tbody tr").each(function () {
        $(this).find("td").removeClass("active selectable currentDay between hover").html("");
    });
    $("td").off('mouseenter mouseleave click');
}

function initCalendar(monthData) {
    let row = 0;
    let classToAdd = "";
    let currentDayClass = "";
    const today = new Date();

    clearCalendar();

    $.each(monthData, function (i, value) {
        const { weekday_short, day, month, year, current_day, date_info } = value.date;
        let column = 0;

        $(".sideb .header .month").text(month);
        $(".sideb .header .year").text(year);

        if (current_day) {
            currentDayClass = "currentDay";
            classToAdd = "selectable";
            $(".right-wrapper .header span").text(value.date.weekday);
            $(".right-wrapper .day").text(day);
            $(".right-wrapper .month").text(month);
        }
```

```javascript
            if (today.getTime() < date_info.getTime()) {
                classToAdd = "selectable";
            }

            $("tr.weekdays th").each(function () {
                if ($(this).data("weekday") === weekday_short) {
                    column = $(this).data("column");
                }
            });

            $($("tr.days").eq(row).find("td").eq(column))
                .addClass(`${classToAdd} ${currentDayClass}`)
                .html(day);

            currentDayClass = "";
            if (column === 6) row++;
        });

        $("td.selectable").click(function () {
            dateClickHandler($(this));
        });
    }

function dateClickHandler(elem) {
    var day = parseInt($(elem).text(), 10);
    var clickedDate = new Date(new Date().getFullYear(), new Date().getMonth() +
monthDirection, day);

    // Update selected date
    selectedDate = clickedDate;

    // Clear previous selections
    $("td.selectable").removeClass("active");

    // Highlight the selected date
    $(elem).addClass("active");

    // Update the display with selected date details
    $(".right-wrapper .header span").text(weekdayNames[clickedDate.getDay()]);
    $(".right-wrapper .day").text(clickedDate.getDate());
    $(".right-wrapper .month").text(monthNames[clickedDate.getMonth()]);

    // Optionally, navigate to the month of the selected date if it's not visible
    var currentMonth = new Date(new Date().getFullYear(), new Date().getMonth() +
monthDirection, 1).getMonth();
    if (clickedDate.getMonth() !== currentMonth) {
        monthDirection = clickedDate.getMonth() - currentMonth;
```

```javascript
      initCalendar(getMonth(clickedDate));
    }
}

$(document).ready(function () {
    initCalendar(getMonth(new Date()));

    $(".fa-angle-double-right").click(function () {
        $(".right-wrapper").toggleClass("is-active");
        $(this).toggleClass("is-active");
    });

    $(".fa-angle-left").click(function () {
        getPrevMonth();
        $(".main").addClass("is-rotated-left");
        setTimeout(function () {
            $(".main").removeClass("is-rotated-left");
        }, 195);
    });

    $(".fa-angle-right").click(function () {
        getNextMonth();
        $(".main").addClass("is-rotated-right");
        setTimeout(function () {
            $(".main").removeClass("is-rotated-right");
        }, 195);
    });
});
```

PROGRAM:

Email_Registration.html

```
<!DOCTYPE html>
<html>
 <head>
  <title>Student Registration Form</title>
  <script type="text/javascript">
   function validate() {
     if (document.signup.fname.value == "") {
      alert("Please Enter First Name!");
      return false;
     }
     if (document.signup.lname.value == "") {
      alert("Please Enter Last Name!");
      return false;
     }
     if (document.signup.uname.value == "") {
      alert("Please Enter User Name!");
      return false;
     }
     if (document.signup.pword1.value == "") {
      alert("Please Enter Password!");
      return false;
     }
     if (document.signup.pword1.value.length < 6) {
      alert("Please Enter min 6 characters!");
      return false;
     }
     if (document.signup.pword2.value == "") {
      alert("Please Enter Password Again!");
      return false;
     }
     if (document.signup.pword2.value != document.signup.pword1.value) {
      alert("Password Mismatch Re-enter Password!");
      return false;
     }
     alert("Details Entered Successfully");
     display();
    }
    function display() {
     document.writeln("<h2>Details Entered:</h2>");
     document.writeln('<br/><font color="#0066ff">First Name:</font>' +
document.signup.fname.value);
     document.writeln('<br/><font color="#0066ff">Last Name:</font>' +
document.signup.lname.value);
```

```
        document.writeln('<br/><font color="#0066ff">User Name:</font>' +
document.signup.uname.value);
        document.writeln('<br/><font color="#0066ff">Country:</font>' +
document.signup.country.value);
        document.writeln('<br/><font color="#0066ff">Alternate Email:</font>' +
document.signup.aemail.value);
    }
  </script>
  <style>
    body {
      background-color: green;
      color: #660000;
      font-family: Arial, sans-serif;
      text-align: center;
    }
    .container {
      background-color: #ffffff;
      border-radius: 10px;
      padding: 20px;
      width: 50%;
      margin: auto;
      box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);
    }
    h1, h2 {
      color: #0066ff;
    }
    input[type="text"],
    input[type="password"],
    select {
      width: 80%;
      padding: 10px;
      margin: 5px 0;
      border: 1px solid #ccc;
      border-radius: 5px;
    }
    input[type="submit"],
    input[type="reset"] {
      background-color: #0066ff;
      color: white;
      border: none;
      padding: 10px 20px;
      border-radius: 5px;
      cursor: pointer;
      margin: 10px 5px;
    }
    input[type="submit"]:hover,
    input[type="reset"]:hover {
      background-color: #005bb5;
```

```html
      }
      .checkbox-label {
        margin-right: 10px;
      }
    </style>
  </head>
  <body>
    <div class="container">
      <h1>E-mail</h1>
      <h2>New User Signup Form</h2>
      <form name="signup" onsubmit="return validate()">
        <p>*First Name:<input type="text" name="fname" /></p>
        <p>*Last Name:<input type="text" name="lname" /></p>
        <p>*User Name:<input type="text" name="uname" />@gmail.com</p>
        <p>*Password:<input type="password" name="pword1" /></p>
        <p>*Confirm Password:<input type="password" name="pword2" /></p>
        <p>Gender:
          <label class="checkbox-label"><input type="radio" name="gen" value="male"
/>Male</label>
          <label class="checkbox-label"><input type="radio" name="gen" value="female"
/>Female</label>
        </p>
        <p>Country:
          <select name="country">
            <option selected>Select Country</option>
            <option value="India">India</option>
            <option value="Russia">Russia</option>
            <option value="France">France</option>
            <option value="Italy">Italy</option>
          </select>
        </p>
        <p>Language Known:<br />
          <label class="checkbox-label"><input type="checkbox" name="lang" value="English"
/>English</label><br />
          <label class="checkbox-label"><input type="checkbox" name="lang" value="Tamil"
/>Tamil</label><br />
          <label class="checkbox-label"><input type="checkbox" name="lang" value="Hindi"
/>Hindi</label><br />
          <label class="checkbox-label"><input type="checkbox" name="lang"
value="Malayalam" />Malayalam</label><br />
        </p>
        <p>Alternate Email:<input type="text" name="aemail" /></p>
        <p><input type="checkbox" name="agree" />I Agree The Terms & Conditions</p>
        <p>
          <input type="submit" value="Submit" />
          <input type="reset" value="Reset" />
        </p>
      </form></div></body></html>
```

PROGRAM:

DHTML_Window_Control.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Open URL in Iframe</title>
    <style>
        body {
            text-align: center;
            background-color: #f0f0f0;
            margin: 0;
            padding: 0;
        }
        #iframe-container {
            width: 100%;
            height: calc(100vh - 80px); /* Adjust height to allow space for buttons */
            margin-top: 20px;
        }
        iframe {
            width: 400px;  /* Width of the iframe */
            height: 750px; /* Height of the iframe */
            border: none;
            display: block;
            margin: 0 auto; /* Center iframe */
        }
        button {
            margin: 10px; /* Spacing for buttons */
            padding: 10px 20px; /* Button padding */
            font-size: 16px; /* Button font size */
        }
    </style>
</head>
<body>


    <button onclick="openURL()">Open Track My Class</button>
    <button onclick="closeURL()">Close Track My Class</button>

    <div id="iframe-container">
        <iframe id="myIframe" src="" title="Webpage Preview"></iframe>
    </div>

    <script>
```

```html
    function openURL() {
        document.getElementById("myIframe").src = "https://trackmyclass.site"; // Set iframe source to your URL
    }

    function closeURL() {
        document.getElementById("myIframe").src = ""; // Clear iframe source
    }
  </script>

</body>
</html>
```

PROGRAM:

DHTML_Bg_Color_Change.html

```html
<!DOCTYPE html>
<html>
<head>
    <title>How to Change the Background Color After Clicking the Button?</title>
    <style>
        body {
            text-align: center;
            transition: background 0.5s; /* Smooth transition for background color change */
        }
        h1 {
            color: rgb(44, 219, 181); /* Heading color */
        }
        #UP {
            font-size: 16px;
            font-weight: bold;
        }
        #DOWN {
            color: rgb(255, 89, 94); /* Adjusted text color for better contrast */
            font-size: 20px;
            font-weight: bold;
        }
        button {
            padding: 10px 20px;
            font-size: 16px;
            background-color: rgb(44, 219, 181); /* Button background color */
            color: white; /* Button text color */
            border: none;
            border-radius: 5px;
            cursor: pointer;
        }
        button:hover {
            background-color: rgb(34, 164, 145); /* Darker shade on hover */
        }
    </style>
</head>
<body>
    <h1>TrackMyClass</h1>
    <p id="UP"></p>
    <button onclick="Run()">Click Here</button>
    <p id="DOWN"></p>

    <script>
        var el_up = document.getElementById("UP");
```

```
        var el_down = document.getElementById("DOWN");
        var str = "Click on the button to change the background color";
        el_up.innerHTML = str;

        function changeColor(color) {
            document.body.style.background = color;
        }

        function Run() {
            changeColor("rgb(91, 119, 221)"); // New background color
            el_down.innerHTML = "Background Color Changed"; // Updated message
        }
    </script>
</body>
</html>
```

PROGRAM:

Mouse_Curosr.html

```html
<!DOCTYPE html>
<html>
  <head>
    <title>JS Mouse Events - Button Demo</title>
  </head>
  <body>
   <button id="btn">
     Click me with any mouse button: left, right, middle, ...
   </button>
   <p id="message"></p>
   <script>
    let btn = document.querySelector("#btn");
    // disable context menu when right-mouse clicked
    btn.addEventListener("contextmenu", (e) => {
      e.preventDefault();
    });
    // show the mouse event message
    btn.addEventListener("mouseup", (e) => {
     let msg = document.querySelector("#message");
     switch (e.button) {
       case 0:
         msg.textContent = "Left mouse button clicked.";
         break;
       case 1:
         msg.textContent = "Middle mouse button clicked.";
         break;
       case 2:
         msg.textContent = "Right mouse button clicked.";
         break;
       default:
         msg.textContent = `Unknown mouse button code: ${event.button}`;
     }
    });
   </script>
  </body>
</html>
```

PROGRAM:

VisitServlet.java

```java
package com.myservletapp;

import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class VisitServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;  // Added serialVersionUID

    public void doGet(HttpServletRequest request, HttpServletResponse response)
            throws IOException, ServletException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();

        // Get the existing visit count from the cookies
        Cookie[] cookies = request.getCookies();
        int visitCount = 1; // Default if no cookie found

        if (cookies != null) {
            for (Cookie cookie : cookies) {
                if (cookie.getName().equals("visit")) {
                    visitCount = Integer.parseInt(cookie.getValue()) + 1;
                    break;
                }
            }
        }

        // Update the cookie with the new visit count
        Cookie c = new Cookie("visit", String.valueOf(visitCount));
        response.addCookie(c);

        // Output based on visit count
        if (visitCount == 1) {
            out.println("Welcome, this is your first visit!");
        } else {
            out.println("You have visited " + visitCount + " times");
        }
    }
}
```

web.xml

```xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
      http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
      version="3.1">

   <servlet>
      <servlet-name>VisitServlet</servlet-name>
      <servlet-class>com.myservletapp.VisitServlet</servlet-class> <!-- Fully qualified class
name -->
   </servlet>

   <servlet-mapping>
      <servlet-name>VisitServlet</servlet-name>
      <url-pattern>/visit</url-pattern> <!-- Simplified URL pattern -->
   </servlet-mapping>

</web-app>
```

PROGRAM:

index.html

```
<!DOCTYPE html>
<html>
<head><title>Welcome Page: Enter Your Name</title></head>
<body>
    <h1>Welcome! Please Enter Your Name</h1>
    <form action="session.jsp" method="post">
        <input type="text" name="inputname" placeholder="Enter your name" required>
        <input type="submit" value="Click Here!"><br/>
    </form>
</body></html>
```

session.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head><title>Passing the Input Value to a Session Variable</title></head>
<body>
    <%
        String uname = request.getParameter("inputname");
        session.setAttribute("sessname", uname);
    %>
    <h2>Welcome, <%= uname %>!</h2>
    <a href="output.jsp">Check Output Page Here</a>
</body></html>
```

output.jsp

```
<%@ page language="java" contentType="text/html; charset=UTF-8"
pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
<head><title>Output Page: Fetching the Value from Session</title></head>
<body>
    <%
        String name = (String) session.getAttribute("sessname");
    %>
    <h2>Hello User!</h2>
    <p>You have entered the name: <%= name != null ? name : "Guest" %></p>
</body></html>
```

PROGRAM:

ExamClient.html

```html
<!DOCTYPE html>
<html>
<head>
    <title>Online Exam Client</title>
    <style type="text/css">
        body {
            background-color: black;
            font-family: courier;
            color: blue;
        }
    </style>
</head>
<body>
    <h2 style="text-align:center">ONLINE EXAMINATION</h2>
    <h3>Answer the following questions (5 marks for each correct answer)</h3>
    <hr/>
    <form name="examForm" method="post" action="ExamServer.jsp">
        <fieldset>
            <legend>Question 1:</legend>
            <p>1. What does TrackMyClass website help classmates check?</p>
            <input type="radio" name="ans1" value="The latest movie releases"> The latest movie releases<br/>
            <input type="radio" name="ans1" value="Their attendance"> Their attendance<br/>
            <input type="radio" name="ans1" value="The best pizza toppings"> The best pizza toppings<br/>
            <input type="radio" name="ans1" value="A dating site for classmates"> A dating site for classmates<br/>
        </fieldset>

        <fieldset>
            <legend>Question 2:</legend>
            <p>2. What device runs TrackMyClass's Telegram bot?</p>
            <input type="radio" name="ans2" value="A toaster"> A toaster<br/>
            <input type="radio" name="ans2" value="A Raspberry Pi Zero W"> A Raspberry Pi Zero W<br/>
            <input type="radio" name="ans2" value="Nokia phone"> Nokia phone<br/>
            <input type="radio" name="ans2" value="TV"> TV<br/>
        </fieldset>

        <fieldset>
            <legend>Question 3:</legend>
            <p>3. What does TrackMyClass's Admin prefer when someone wants to opt-out of his WhatsApp updates?</p>
```

```
          <input type="radio" name="ans3" value="Blocking him on WhatsApp"> Blocking him
on WhatsApp and SMS<br/>
          <input type="radio" name="ans3" value="A simple reply with Unsubscribe"> A simple
reply with Unsubscribe<br/>
          <input type="radio" name="ans3" value="Reporting the chat as spam"> Reporting
the chat as spam<br/>
          <input type="radio" name="ans3" value="Call and inform him directly"> Call and
inform him directly<br/>
     </fieldset>

     <br/>
     <input type="submit" value="Check Your Result"/>
   </form>
</body>
</html>
```

ExamServer.jsp

```
<%@ page contentType="text/html" language="java" import="java.sql.*" %>
<html>
<head>
   <title>Online Exam Server</title>
   <style type="text/css">
      body { background-color: black; font-family: courier; color: blue; }
   </style>
</head>
<body>
   <h2 style="text-align:center">ONLINE EXAMINATION</h2>
   <p>
      <a href="ExamClient.html">Back To Main Page</a>
   </p>
   <hr/>
   <%
      String str1 = request.getParameter("ans1");
      String str2 = request.getParameter("ans2");
      String str3 = request.getParameter("ans3");
      int mark = 0;

      // Load SQLite driver and connect to the database located at C://answer.db
      Class.forName("org.sqlite.JDBC");
      Connection con = DriverManager.getConnection("jdbc:sqlite:C:/answer.db");

      Statement stmt = con.createStatement();
      ResultSet rs = stmt.executeQuery("SELECT * FROM examTab");
```

```
        int i = 1;
        while (rs.next()) {
            String dbAnswer = rs.getString("answer"); // Use "answer" column to fetch answers

            if (i == 1 && str1 != null && str1.equals(dbAnswer)) {
                mark += 5;
            } else if (i == 2 && str2 != null && str2.equals(dbAnswer)) {
                mark += 5;
            } else if (i == 3 && str3 != null && str3.equals(dbAnswer)) {
                mark += 5;
            }
            i++;
        }

        if (mark >= 10) {
            out.println("<h4>Your Mark Is : " + mark + "</h4>");
            out.println("<h3>Congratulations....! You Are Eligible For The Next Round...</h3>");
        } else {
            out.println("<h4>Your Mark is : " + mark + "</h4>");
            out.println("<h3>Sorry....!! You Are Not Eligible For The Next Round...</h3>");
        }

        stmt.close();
        con.close();
    %>
</body>
</html>
```

PROGRAM:

stud.html

```html
<html>
<head>
    <title>Three Tier Application</title>
    <style type="text/css">
        body {
            color: blue;
            font-family: Courier, monospace;
            text-align: center;
            margin: 0;
            padding: 20px;
        }
        form {
            display: inline-block;
            margin-top: 20px;
        }
        input[type="text"] {
            padding: 5px;
            margin-bottom: 10px;
        }
        input[type="submit"] {
            padding: 5px 10px;
        }
    </style>
</head>
<body>
    <h2>EXAMINATION RESULT</h2>
    <hr />
    <form name="f1" method="GET" action="marklist.jsp">
        <label for="regno">Enter Your Reg.No:</label><br />
        <input type="text" id="regno" name="regno" required /><br /><br />
        <input type="submit" value="SUBMIT" />
    </form>
</body>
</html>
```

marklist.jsp

```jsp
<%@ page contentType="text/html" language="java" %>
<%@ page import="java.sql.*" %>
<html>
<head>
    <title>Examination Result</title>
    <style type="text/css">
        body { color: blue; font-family: courier; text-align: center; }
        table { margin: 0 auto; border-collapse: collapse; }
```

```
        th, td { border: 1px solid blue; padding: 8px; }
    </style>
</head>
<body>
    <h2>EXAMINATION RESULT</h2>
    <hr/>
    <%
        String regNo = request.getParameter("regno");
        String dbPath = "C:/students.db"; // Update this path if necessary
        String studentName = "";
        int[] marks = new int[6];

        Connection conn = null; // Declare connection outside try block
        try {
            // Load the SQLite JDBC driver
            Class.forName("org.sqlite.JDBC");
            conn = DriverManager.getConnection("jdbc:sqlite:" + dbPath);

            // Prepare and execute the SQL statement
            PreparedStatement stmt = conn.prepareStatement("SELECT * FROM students
WHERE regNo = ?");
            stmt.setString(1, regNo);
            ResultSet rs = stmt.executeQuery();

            // Process the result set
            if (rs.next()) {
                studentName = rs.getString("name");
                marks[0] = rs.getInt("subject1");
                marks[1] = rs.getInt("subject2");
                marks[2] = rs.getInt("subject3");
                marks[3] = rs.getInt("subject4");
                marks[4] = rs.getInt("subject5");
                marks[5] = rs.getInt("subject6");
            } else {
                out.println("<p>No results found for Registration No: " + regNo + "</p>");
            }
        } catch (ClassNotFoundException e) {
            out.println("<p>Error: SQLite JDBC Driver not found. " + e.getMessage() + "</p>");
        } catch (SQLException e) {
            out.println("<p>SQL Error: " + e.getMessage() + " (Error Code: " + e.getErrorCode()
+ ")</p>");
        } catch (Exception e) {
            out.println("<p>Error: " + e.getMessage() + "</p>");
        } finally {
            // Close the connection in the finally block
            try {
                if (conn != null) {
                    conn.close();
```

```
        }
    } catch (SQLException e) {
        out.println("<p>Error closing connection: " + e.getMessage() + "</p>");
    }
}

// Display the results if student name is found
if (!studentName.isEmpty()) {
%>
<h3>Results for Registration No: <%= regNo %></h3>
<p>Name: <%= studentName %></p>
<table>
    <tr> <th>SUBJECT</th> <th>Marks</th> </tr>
    <tr> <td>Network Programming and Management</td> <td><%= marks[0] %></td> </tr>
    <tr> <td>Engineering Maths - I</td> <td><%= marks[1] %></td> </tr>
    <tr> <td>Engineering Maths - II</td> <td><%= marks[2] %></td> </tr>
    <tr> <td>Engineering Maths - III</td> <td><%= marks[3] %></td> </tr>
    <tr> <td>Probability & Query Theory</td> <td><%= marks[4] %></td> </tr>
    <tr> <td>Discrete Mathematics</td> <td><%= marks[5] %></td> </tr>
</table>
<% } %>
<br/>
<a href="stud.html">Back</a>
</body>
</html>
```

PROGRAM:

DemoServlet.java

```java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
@SuppressWarnings("serial")
public class DemoServlet extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException {
        res.setContentType("text/html"); // setting the content type
        PrintWriter pw = res.getWriter(); // get the stream to write the data
        pw.println("<html><body>");
        pw.println("<h1>Welcome to TrackMyClass</h1>"); // added heading for better structure
        pw.println("</body></html>");
        pw.close(); // closing the stream
    }
}
```

web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
      http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
      version="3.1">
   <servlet>
      <servlet-name>SRMVEC</servlet-name>
      <servlet-class>DemoServlet</servlet-class>
   </servlet>
   <servlet-mapping>
      <servlet-name>SRMVEC</servlet-name>
      <url-pattern>/welcome</url-pattern>
   </servlet-mapping>
</web-app>
```

PROGRAM:

DemoServlet.java

```java
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;
@SuppressWarnings("serial")
public class DemoServ extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest req, HttpServletResponse res) throws
ServletException, IOException {
        res.setContentType("text/html");
        PrintWriter pw = res.getWriter();
        String name = req.getParameter("name");
        // Check if name is null or empty
        if (name == null || name.trim().isEmpty()) {
            pw.println("Please enter your name.");
        } else {
            pw.println("Welcome " + name);
        }
        pw.close(); // Close PrintWriter
    }
}
```

index.html

```html
<!DOCTYPE html>
<html>
<head>
    <title>Login Form</title>
</head>
<body>
    <form action="welcome" method="get">
        Enter your name:
        <input type="text" name="name" required><br>
        <input type="submit" value="Login">
    </form>
</body>
</html>
```

Web.xml

```xml
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
        http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
        version="3.1">
    <servlet>
        <servlet-name>SRMVEC</servlet-name>
```

```xml
        <servlet-class>DemoServ</servlet-class>
    </servlet>
    <servlet-mapping>
        <servlet-name>SRMVEC</servlet-name>
        <url-pattern>/welcome</url-pattern>
    </servlet-mapping>
</web-app>
```

PROGRAM:

index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Servlet Login Example</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <h1>Welcome to Login App by Cookie</h1>
    <nav>
        <a href="login.html">Login</a> |
        <a href="LogoutServlet">Logout</a> |
        <a href="ProfileServlet">Profile</a>
    </nav>
</body>
</html>
```

link.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Navigation Links</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <nav>
        <a href="login.html">Login</a> |
        <a href="LogoutServlet">Logout</a> |
        <a href="ProfileServlet">Profile</a>
    </nav>
    <hr>
</body>
</html>
```

login.html

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

```html
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <h1>Login</h1>
    <form action="LoginServlet" method="post">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required><br><br>

        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required><br><br>

        <input type="submit" value="Login">
    </form>
</body>
</html>
```

styles.css

```css
body {
    font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
    margin: 0;
    padding: 0;
    background: linear-gradient(to right, #74ebd5, #ACB6E5);
    color: #333;
    line-height: 1.6;
}
h1 {
    color: #2c3e50;
    text-align: center;
    margin: 20px 0;
}
nav {
    background-color: rgba(44, 62, 80, 0.8);
    color: white;
    padding: 15px;
    border-radius: 5px;
    text-align: center;
    margin-bottom: 20px;
}
nav a {
    color: #ecf0f1;
    text-decoration: none;
    margin: 0 15px;
    transition: color 0.3s;
}
nav a:hover {
    color: #ffd700;
}
```

```css
form {
    background-color: white;
    padding: 30px;
    border-radius: 10px;
    box-shadow: 0 2px 15px rgba(0, 0, 0, 0.2);
    max-width: 400px;
    margin: 20px auto;
}
label {
    display: block;
    margin-bottom: 5px;
    font-weight: bold;
    color: #34495e;
}
input[type="text"],
input[type="password"],
input[type="submit"] {
    width: 100%;
    padding: 10px;
    margin: 8px 0 20px;
    border: 1px solid #ccc;
    border-radius: 5px;
    transition: border 0.3s;
}
input[type="text"]:focus,
input[type="password"]:focus {
    border-color: #007BFF;
    outline: none;
}
input[type="submit"] {
    background-color: #007BFF;
    color: white;
    border: none;
    cursor: pointer;
    font-size: 16px;
    transition: background-color 0.3s;
}
input[type="submit"]:hover {
    background-color: #0056b3;
}
footer {
    text-align: center;
    margin-top: 20px;
    font-size: 14px;
    color: #7f8c8d;
}
```

LoginServlet.java

```java
package com.example.servlets;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@SuppressWarnings("serial")
public class LoginServlet extends HttpServlet {
    private static final String VALID_PASSWORD = "asdfghjkl;'";
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
      response.setContentType("text/html");
      PrintWriter out = response.getWriter();
      request.getRequestDispatcher("link.html").include(request, response);
      String name = request.getParameter("name");
      String password = request.getParameter("password");
      if (VALID_PASSWORD.equals(password)) {
         out.print("You are successfully logged in!");
         out.print("<br>Welcome, " + name);
         Cookie ck = new Cookie("name", name);
         response.addCookie(ck);
      } else {
         out.print("Sorry, username or password error!");
         request.getRequestDispatcher("login.html").include(request, response);
      }
      out.close();
    }
}
```

LogoutServlet.java

```java
package com.example.servlets;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@SuppressWarnings("serial")
public class LogoutServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
```

```java
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        request.getRequestDispatcher("link.html").include(request, response);
        // Create a cookie to delete the user's session
        Cookie ck = new Cookie("name", "");
        ck.setMaxAge(0); // Set cookie to expire immediately
        response.addCookie(ck);
        out.print("You have successfully logged out!");
        out.close();
    }
}
```

ProfileServlet.java

```java
package com.example.servlets;
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@SuppressWarnings("serial")
public class ProfileServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
            throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
        request.getRequestDispatcher("link.html").include(request, response);
        Cookie[] cookies = request.getCookies();
        if (cookies != null) {
            String name = null;
            for (Cookie cookie : cookies) {
                if (cookie.getName().equals("name")) {
                    name = cookie.getValue();
                    break;
                }
            }
            if (name != null && !name.isEmpty()) {
                out.print("<b>Welcome to Profile</b>");
                out.print("<br>Welcome, " + name);
            } else {
                out.print("Please login first.");
                request.getRequestDispatcher("login.html").include(request, response);
            }
        } else {
            out.print("Please login first.");
```

```
                request.getRequestDispatcher("login.html").include(request, response);
        }
        out.close();
    }
}
```

PROGRAM:

catalog.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>CD Catalog</title>
</head>
<body>
<h1 style="margin-left: 8%;">CD Catalog</h1>
<table>
    <tr>
        <th>Title</th>
        <th>Artist</th>
        <th>Country</th>
        <th>Company</th>
        <th>Price</th>
        <th>Year</th>
    </tr>
    <tr>
        <td>Empire Burlesque</td>
        <td>Bob Dylan</td>
        <td>USA</td>
        <td>Columbia</td>
        <td>10.90</td>
        <td>1985</td>
    </tr>
    <tr>
        <td>Hide Your Heart</td>
        <td>Bonnie Tyler</td>
        <td>UK</td>
        <td>CBS Records</td>
        <td>9.90</td>
        <td>1988</td>
    </tr>
    <tr>
        <td>Greatest Hits</td>
        <td>Dolly Parton</td>
        <td>USA</td>
        <td>RCA</td>
        <td>9.90</td>
        <td>1982</td>
    </tr>
</table>
</body>
</html>
```

PROGRAM:

catalog_css.html

```xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="cd_catalog.css"?>
<CATALOG>
   <CD>
      <TITLE>Empire Burlesque</TITLE>
      <ARTIST>Bob Dylan</ARTIST>
      <COUNTRY>USA</COUNTRY>
      <COMPANY>Columbia</COMPANY>
      <PRICE>10.90</PRICE>
      <YEAR>1985</YEAR>
   </CD>
   <CD>
      <TITLE>Hide Your Heart</TITLE>
      <ARTIST>Bonnie Tyler</ARTIST>
      <COUNTRY>UK</COUNTRY>
      <COMPANY>CBS Records</COMPANY>
      <PRICE>9.90</PRICE>
      <YEAR>1988</YEAR>
   </CD>
   <CD>
      <TITLE>Greatest Hits</TITLE>
      <ARTIST>Dolly Parton</ARTIST>
      <COUNTRY>USA</COUNTRY>
      <COMPANY>RCA</COMPANY>
      <PRICE>9.90</PRICE>
      <YEAR>1982</YEAR>
   </CD>
   <CD>
      <TITLE>Still Got the Blues</TITLE>
      <ARTIST>Gary Moore</ARTIST>
      <COUNTRY>UK</COUNTRY>
      <COMPANY>Virgin Records</COMPANY>
      <PRICE>10.20</PRICE>
      <YEAR>1990</YEAR>
   </CD>
</CATALOG>
```

Cd_catalog.css

```css
CATALOG {
   background-color: #ffffff;
   width: 100%;
}
```

```
CD {
    display: block;
    margin-bottom: 30pt;
    margin-left: 0;
}

TITLE {
    display: block;
    color: #ff0000;
    font-size: 20pt;
}

ARTIST {
    display: block;
    color: #0000ff;
    font-size: 20pt;
}

COUNTRY,
PRICE,
YEAR,
COMPANY {
    display: block;
    color: #000000;
    margin-left: 20pt;
}
```

PROGRAM:

food.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="FoodCatalog.xsl"?>
<breakfast_menu>
   <food>
      <name>Belgian Waffles</name>
      <price>$5.95</price>
      <description>Two of our famous Belgian Waffles with plenty of real maple
syrup</description>
      <calories>650</calories>
   </food>
   <food>
      <name>Strawberry Belgian Waffles</name>
      <price>$7.95</price>
      <description>Light Belgian waffles covered with strawberries and whipped
cream</description>
      <calories>900</calories>
   </food>
   <food>
      <name>Berry-Berry Belgian Waffles</name>
      <price>$8.95</price>
      <description>Light Belgian waffles covered with an assortment of fresh berries and
whipped cream</description>
      <calories>900</calories>
   </food>
   <food>
      <name>French Toast</name>
      <price>$4.50</price>
      <description>Thick slices made from our homemade sourdough bread</description>
      <calories>600</calories>
   </food>
   <food>
      <name>Homestyle Breakfast</name>
      <price>$6.95</price>
      <description>Two eggs, bacon or sausage, toast, and our ever-popular hash
browns</description>
      <calories>950</calories>
   </food>
</breakfast_menu>
```

FoodCatalog.xsl

```xml
<?xml version="1.0" encoding="UTF-8"?>
<xsl:stylesheet version="1.0"
    xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
    <xsl:output method="html" indent="yes" />
    <xsl:template match="/breakfast_menu">
        <html>
            <head>
                <title>Breakfast Menu</title>
                <style>
                    body {
                        font-family: Arial, sans-serif;
                    }
                    .food-title {
                        background-color: blue;
                        color: white;
                        padding: 10px;
                        margin: 5px 0;
                    }
                    .food-description {
                        margin: 5px 0 10px 20px;
                    }
                </style>
            </head>
            <body>
                <h1>Breakfast Menu</h1>
                <xsl:apply-templates select="food" />
            </body>
        </html>
    </xsl:template>
    <xsl:template match="food">
        <div>
            <div class="food-title">
                <xsl:value-of select="name"/> - <xsl:value-of select="price"/>
            </div>
            <div class="food-description">
                <xsl:value-of select="description"/>
            </div>
        </div>
    </xsl:template>
</xsl:stylesheet>
```

PROGRAM:

Parse.java

```java
import java.io.*;
import javax.xml.parsers.*;
import org.w3c.dom.*;
import org.xml.sax.*;
public class Parse {
    public static void main(String[] arg) {
        try {
            System.out.println("Enter the name of the XML document:");
            BufferedReader input = new BufferedReader(new InputStreamReader(System.in));
            String fileName = input.readLine();
            File file = new File(fileName);
            if (file.exists()) {
                try {
                    DocumentBuilderFactory factoryObj = DocumentBuilderFactory.newInstance();
                    DocumentBuilder builder = factoryObj.newDocumentBuilder();
                    InputSource inputSource = new InputSource(fileName);
                    Document doc = builder.parse(inputSource);
                    System.out.println(fileName + " is well-formed!");
                }
                catch (Exception e) {
                    System.out.println(fileName + " is not well-formed!");
                    System.exit(1);
                }
            } else {
                System.out.println("File not found!");
            }
        } catch (IOException ex) {
            ex.printStackTrace();
        }
    }
}
```

student.xml

```xml
<?xml version="1.0"?>
<students>
    <student>
        <Roll_No>10</Roll_No>
        <Personal_Info>
            <Name>Parth</Name>
            <Address>Pune</Address>
            <Phone>1234567890</Phone>
        </Personal_Info>
        <Class>Second</Class>
```

```
        <Subject>Maths</Subject>
        <Marks>100</Marks>
    </student>
    <student>
        <Roll_No>20</Roll_No>
        <Personal_Info>
            <Name>AnuRadha</Name>
            <Address>Bangalore</Address>
            <Phone>90901233</Phone>
        </Personal_Info>
        <Class>Fifth</Class>
        <Subject>English</Subject>
        <Marks>90</Marks>
    </student>
</students>
```

PROGRAM:

AJAX.html

```html
<html>
  <head>
    <script type="text/javascript">
     function loadXMLDoc()
     {
       if (window.XMLHttpRequest) xmlhttp = new XMLHttpRequest();
       else xmlhttp = new ActiveXObject("Microsoft.XMLHTTP");
       xmlhttp.onreadystatechange = function () {
         if (xmlhttp.readyState == 4 && xmlhttp.status == 200) {
           document.getElementById("myDiv").innerHTML = xmlhttp.responseText;
         }
       };
       xmlhttp.open("GET", "TrackMyClass.txt", true);
       xmlhttp.send();
     }
    </script>
    <title>AJAX Example Program</title>
  </head>
  <body>
    <div id="myDiv"><h2>Let AJAX change this text</h2></div>
    <button type="button" onclick="loadXMLDoc()">Change Content</button>
  </body>
</html>
```

TrackMyClass.txt

Welcome to TrackMyClass Website...!
Here, you can check your attendance percentage by entering your actual college registration number and your date of birth.