

2) Create a container add row inside it and add 3 columns inside row using Bootstrap.

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

  <!-- Bootstrap CSS -->
  <link href="path/to/bootstrap.min.css" rel="stylesheet">
</head>
<body>

  <div class="container mt-5">
    <!-- Container with margin-top (mt-5) -->

    <div class="row">
      <!-- Row inside the container -->

      <div class="col-md-4">
        <!-- First Column (col-md-4) -->
        <div class="card">
          <div class="card-body">
            <h5 class="card-title">Column 1</h5>
            <p class="card-text">Content for column 1.</p>
          </div>
        </div>
      </div>

      <div class="col-md-4">
        <!-- Second Column (col-md-4) -->
        <div class="card">
          <div class="card-body">
            <h5 class="card-title">Column 2</h5>
            <p class="card-text">Content for column 2.</p>
          </div>
        </div>
      </div>

      <div class="col-md-4">
```

```

        <!-- Third Column (col-md-4) -->
        <div class="card">
            <div class="card-body">
                <h5 class="card-title">Column 3</h5>
                <p class="card-text">Content for column 3.</p>
            </div>
        </div>
    </div>
    <!-- End of Row -->

</div>
<!-- End of Container -->

<!-- Bootstrap JS (Optional, for certain components) -->
<script src="path/to/bootstrap.bundle.min.js"></script>
</body>
</html>

```

3) Write a bootstrap application to display thumbnails of the images.

```

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

    <!-- Bootstrap CSS -->
    <link href="path/to/bootstrap.min.css" rel="stylesheet">
</head>
<body>

    <div class="container mt-5">
        <!-- Container with margin-top (mt-5) -->

        <h2 class="mb-4">Image Thumbnails</h2>

        <div class="row">

```

```
<!-- Row for Image Thumbnails -->

<div class="col-md-4 mb-4">
  <!-- First Image Thumbnail (col-md-4) -->
  <div class="card">
    
    <div class="card-body">
      <p class="card-text">Description for Image 1.</p>
    </div>
  </div>
</div>

<div class="col-md-4 mb-4">
  <!-- Second Image Thumbnail (col-md-4) -->
  <div class="card">
    
    <div class="card-body">
      <p class="card-text">Description for Image 2.</p>
    </div>
  </div>
</div>

<div class="col-md-4 mb-4">
  <!-- Third Image Thumbnail (col-md-4) -->
  <div class="card">
    
    <div class="card-body">
      <p class="card-text">Description for Image 3.</p>
    </div>
  </div>
</div>

<!-- Add more columns as needed for additional images -->

</div>
<!-- End of Row -->

</div>
<!-- End of Container -->
```

```
<!-- Bootstrap JS (Optional, for certain components) -->
<script src="path/to/bootstrap.bundle.min.js"></script>
</body>
</html>
```

6) Create a web page being rendered in the browser consists of many things - logo, informative text, pictures, hyperlinks, navigational structure and table

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Your Web Page</title>

  <style>

    body {

      font-family: Arial, sans-serif;

      margin: 20px;

    }

    header {

      text-align: center;

      padding: 20px;

      background-color: #f2f2f2;

    }
```

```
nav {  
    margin-top: 20px;  
}
```

```
nav ul {  
    list-style-type: none;  
    margin: 0;  
    padding: 0;  
    overflow: hidden;  
    background-color: #333;  
}
```

```
nav li {  
    float: left;  
}
```

```
nav li a {  
    display: block;  
    color: white;  
    text-align: center;  
    padding: 14px 16px;  
    text-decoration: none;  
}
```

```
nav li a:hover {  
    background-color: #ddd;
```

```
    color: black;
}
```

```
section {
    margin-top: 20px;
}
```

```
img {
    max-width: 100%;
    height: auto;
}
```

```
table {
    width: 100%;
    border-collapse: collapse;
    margin-top: 20px;
}
```

```
table, th, td {
    border: 1px solid #ddd;
}
```

```
th, td {
    padding: 10px;
    text-align: left;
}
```

```
        th {

            background-color: #f2f2f2;

        }

    </style>

</head>

<body>


    <header>

        <h1>Your Website</h1>

        

    </header>


    <nav>

        <ul>

            <li><a href="#">Home</a></li>

            <li><a href="#">About</a></li>

            <li><a href="#">Services</a></li>

            <li><a href="#">Contact</a></li>

        </ul>

    </nav>


    <section>

        <h2>Welcome to Our Website</h2>

        <p>This is a simple web page with various elements.</p>

        
```

```
</section>
```

```
<section>
```

```
<h2>Table Example</h2>
```

```
<table>
```

```
<thead>
```

```
<tr>
```

```
<th>Name</th>
```

```
<th>Age</th>
```

```
<th>Location</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<tr>
```

```
<td>John Doe</td>
```

```
<td>25</td>
```

```
<td>New York</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Jane Smith</td>
```

```
<td>30</td>
```

```
<td>London</td>
```

```
</tr>
```

```
</tbody>
```

```
</table>
```

```
</section>
```



```
</body>
```

```
</html>
```

4) Write a bootstrap program for the following
“The .table class adds basic styling (light padding and only horizontal dividers) to a table” The table can have the first name, last name, and email id as columns

```
<!DOCTYPE html>
```

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

```
<head>
```

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

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

```
  <title>Bootstrap Table Example</title>
```

```
  <!-- Bootstrap CSS -->
```

```
  <link href="path/to/bootstrap.min.css" rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
  <div class="container mt-5">
```

```
    <!-- Container with margin-top (mt-5) -->
```

```
    <h2 class="mb-4">User Information Table</h2>
```

```
    <table class="table">
```

```
<!-- Bootstrap Table -->
```

```
<thead>
```

```
<!-- Table Header -->
```

```
<tr>
```

```
<th scope="col">First Name</th>
```

```
<th scope="col">Last Name</th>
```

```
<th scope="col">Email ID</th>
```

```
</tr>
```

```
</thead>
```

```
<tbody>
```

```
<!-- Table Body -->
```

```
<tr>
```

```
<td>John</td>
```

```
<td>Doe</td>
```

```
<td>john.doe@example.com</td>
```

```
</tr>
```

```
<tr>
```

```
<td>Jane</td>
```

```
<td>Smith</td>
```

```
<td>jane.smith@example.com</td>
```

```
</tr>
```

```
<!-- Add more rows as needed -->
```

```
</tbody>
```

```
</table>

<!-- End of Bootstrap Table -->

</div>

<!-- End of Container -->

<!-- Bootstrap JS (Optional, for certain components) -->

<script src="path/to/bootstrap.bundle.min.js"></script>

</body>

</html>
```

7) Create a 3D text, apply appropriate font, style, color. Use : Hover in the style selector so that the 3D effects appear only when you hover over the text

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>3D Text Effect</title>

  <style>

    body {

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

      background-color: #f0f0f0;

      display: flex;
```

```
    justify-content: center;

    align-items: center;

    height: 100vh;

    margin: 0;
}
```

```
.three-d-text {

    font-size: 3em;

    font-weight: bold;

    color: #3498db;

    text-shadow: 4px 4px 0 #2980b9, 7px 7px 0 #2c3e50;

    transition: transform 0.3s ease-in-out;

}
```

```
.three-d-text:hover {

    transform: translate(3px, 3px);

}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="three-d-text">Hover me!</div>
```

```
</body>
```

```
</html>
```

8) Create a button with different style (Secondary, Primary, Success, Error, Info, Warning, Danger) using BootStrap

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Bootstrap Button Styles</title>

  <!-- Bootstrap CSS -->

  <link href="path/to/bootstrap.min.css" rel="stylesheet">

</head>

<body>

  <div class="container mt-5">

    <!-- Container with margin-top (mt-5) -->

    <h2 class="mb-4">Bootstrap Button Styles</h2>

    <!-- Button Styles -->

    <button type="button" class="btn btn-secondary mr-2">Secondary</button>

    <button type="button" class="btn btn-primary mr-2">Primary</button>

    <button type="button" class="btn btn-success mr-2">Success</button>

    <button type="button" class="btn btn-danger mr-2">Danger</button>

    <button type="button" class="btn btn-info mr-2">Info</button>

    <button type="button" class="btn btn-warning mr-2">Warning</button>
```

```
<button type="button" class="btn btn-error">Error</button>

<!-- End of Button Styles -->


</div>

<!-- End of Container -->


<!-- Bootstrap JS (Optional, for certain components) -->

<script src="path/to/bootstrap.bundle.min.js"></script>

</body>

</html>
```

9)Write an HTML 5 program for student registration form for college admission. Use input type like search, email, date etc

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Student Registration Form</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            background-color: #f4f4f4;

            margin: 20px;

        }
```

```
form {  
    max-width: 600px;  
    margin: 0 auto;  
    background-color: #fff;  
    padding: 20px;  
    border-radius: 8px;  
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
}
```

```
label {  
    display: block;  
    margin-bottom: 8px;  
    font-weight: bold;  
}
```

```
input, select {  
    width: 100%;  
    padding: 10px;  
    margin-bottom: 16px;  
    border: 1px solid #ccc;  
    border-radius: 4px;  
    box-sizing: border-box;  
}
```

```
input[type="submit"] {
    background-color: #4caf50;
    color: #fff;
    cursor: pointer;
}

input[type="submit"]:hover {
    background-color: #45a049;
}
</style>
</head>
<body>

<form action="#" method="post">
    <h2>Student Registration Form</h2>

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

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

    <label for="dateOfBirth">Date of Birth:</label>
```



```
<input type="date" id="dateOfBirth" name="dateOfBirth" required>
```

```
<label for="gender">Gender:</label>
```

```
<select id="gender" name="gender" required>
```

```
  <option value="male">Male</option>
```

```
  <option value="female">Female</option>
```

```
  <option value="other">Other</option>
```

```
</select>
```

```
<label for="course">Select Course:</label>
```

```
<select id="course" name="course" required>
```

```
  <option value="computerScience">Computer Science</option>
```

```
  <option value="engineering">Engineering</option>
```

```
  <option value="biology">Biology</option>
```

```
  <!-- Add more options as needed -->
```

```
</select>
```

```
<label for="searchCollege">Search for College:</label>
```

```
<input type="search" id="searchCollege" name="searchCollege">
```

```
<label for="comments">Additional Comments:</label>
```

```
<textarea id="comments" name="comments" rows="4"></textarea>
```

```
<input type="submit" value="Submit">
```

```
</form>
```

```
</body>
```

```
</html>
```

10) Create a web page that shows use of transition properties, transition delay and duration effect.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>CSS Transition Example</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      margin: 0;
      background-color: #f4f4f4;
    }

    button {
      padding: 10px 20px;
      font-size: 16px;
      border: none;
      cursor: pointer;
      background-color: #4caf50;
      color: #fff;
      border-radius: 4px;
      transition-property: background-color, color;
      transition-duration: 0.3s;
      transition-delay: 0.1s;
    }
  </style>
</head>
<body>
  <div>
    <button>Click Me</button>
  </div>
</body>
</html>
```

```
        button:hover {
            background-color: #45a049;
            color: #e0e0e0;
        }
    </style>
</head>
<body>

    <button>Hover Me</button>

</body>
</html>
```

11)Write a HTML code which will divide web page in three frames. First frame should consists of company name as heading. Second frame should consists of name of departments with hyperlink. Once click on any department, it should display information of that department in third frame.

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

<style>

    body {

        margin: 0;

        padding: 0;

        font-family: Arial, sans-serif;

        display: flex;

        flex-direction: column;

        height: 100vh;
```

```
}
```

```
header {
```

```
  background-color: #333;
```

```
  color: #fff;
```

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

```
  padding: 10px;
```

```
}
```

```
main {
```

```
  display: flex;
```

```
  flex: 1;
```

```
}
```

```
nav {
```

```
  width: 200px;
```

```
  background-color: #f0f0f0;
```

```
  padding: 10px;
```

```
  box-shadow: 2px 0 5px rgba(0, 0, 0, 0.1);
```

```
}
```

```
nav a {
```

```
  display: block;
```

```
margin-bottom: 10px;

text-decoration: none;

color: #333;
}

article {

    flex: 1;

    padding: 20px;

}

</style>

</head>

<body>

    <header>

        <h1>Company Name</h1>

    </header>

    <main>

        <nav>

            <a href="#" onclick="showDepartment('department1')">Department 1</a>

            <a href="#" onclick="showDepartment('department2')">Department 2</a>

            <a href="#" onclick="showDepartment('department3')">Department 3</a>

            <!-- Add more departments as needed -->
```

```
</nav>
```

```
<article id="department-info">
```

```
<!-- Department information will be displayed here -->
```

```
</article>
```

```
</main>
```

```
<script>
```

```
function showDepartment(department) {
```

```
    // You can replace the following line with an AJAX request to fetch
    department information from the server
```

```
    const departmentInfo = getDepartmentInfo(department);
```

```
    // Display department information in the third frame (article)
```

```
    document.getElementById('department-info').innerHTML =
    departmentInfo;
```

```
}
```

```
function getDepartmentInfo(department) {
```

```
    // Simulated department information, replace this with actual data
```

```
    const departmentData = {
```

```
        department1: 'Information for Department 1',
```

```
        department2: 'Information for Department 2',
```

```
        department3: 'Information for Department 3',
```

```
        // Add more departments as needed

    };

    return departmentData[department] || 'Department information not
available.';

}

</script>

</body>

</html>
```

12) Design an appropriate HTML form for customer registration visiting a departmental store. Form should consist of fields such as name, contact no, gender, preferred days of purchasing, favorite item (to be selected from a list of items), suggestions etc. You should provide button to submit as well as reset the form contents.

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Customer Registration Form</title>

    <style>

        body {

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

```
background-color: #f4f4f4;

margin: 0;

padding: 20px;
}
```

```
form {

  max-width: 600px;

  margin: auto;

  background-color: #fff;

  padding: 20px;

  border-radius: 8px;

  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
```

```
label {

  display: block;

  margin-bottom: 8px;

  font-weight: bold;
}
```

```
input, select, textarea {

  width: 100%;

  padding: 8px;
```



```
margin-bottom: 16px;

box-sizing: border-box;

border: 1px solid #ccc;

border-radius: 4px;
}
```

```
textarea {

  resize: vertical;

  height: 100px;
}
```

```
button {

  background-color: #4caf50;

  color: #fff;

  padding: 10px 15px;

  border: none;

  border-radius: 4px;

  cursor: pointer;
}
```

```
button[type="reset"] {

  background-color: #f44336;
}
```

</style>

</head>

<body>

<form id="customerRegistrationForm">

<label for="name">Name:</label>

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

<label for="contactNo">Contact Number:</label>

<input type="tel" id="contactNo" name="contactNo" pattern="[0-9]{10}"
required>

<small>Enter a 10-digit phone number.</small>

<label for="gender">Gender:</label>

<select id="gender" name="gender" required>

<option value="male">Male</option>

<option value="female">Female</option>

<option value="other">Other</option>

</select>

<label for="preferredDays">Preferred Days of Purchasing:</label>

<input type="text" id="preferredDays" name="preferredDays">

<label for="favoriteItem">Favorite Item:</label>

```
<select id="favoriteItem" name="favoriteItem">
  <option value="clothing">Clothing</option>
  <option value="electronics">Electronics</option>
  <option value="homeAppliances">Home Appliances</option>
  <option value="groceries">Groceries</option>
</select>
```

```
<label for="suggestions">Suggestions:</label>
<textarea id="suggestions" name="suggestions"></textarea>
```

```
<button type="submit">Submit</button>
<button type="reset">Reset</button>
</form>
```

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

13) Create a useful web with the following information and structure using HTML5 tags like:<header> , <footer>, <nav>, <aside>, <section>

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```

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

```
<title>Fictional Tech Product</title>
```

```
<style>
```

```
body {  
  
  font-family: Arial, sans-serif;  
  
  margin: 0;  
  
  padding: 0;  
  
  background-color: #f4f4f4;  
  
}
```

```
header {  
  
  background-color: #333;  
  
  color: #fff;  
  
  text-align: center;  
  
  padding: 10px;  
  
}
```

```
nav {  
  
  background-color: #555;  
  
  color: #fff;  
  
  padding: 10px;  
  
}
```

```
nav a {  
  
    text-decoration: none;  
  
    color: #fff;  
  
    margin: 0 15px;  
  
}
```

```
section {  
  
    max-width: 800px;  
  
    margin: 20px auto;  
  
    padding: 20px;  
  
    background-color: #fff;  
  
    border-radius: 8px;  
  
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
  
}
```

```
aside {  
  
    float: right;  
  
    width: 30%;  
  
    padding: 20px;  
  
    background-color: #ddd;  
  
    border-radius: 8px;  
  
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);  
  
}
```

```
    footer {  
        background-color: #333;  
        color: #fff;  
        text-align: center;  
        padding: 10px;  
        position: absolute;  
        bottom: 0;  
        width: 100%;  
    }  
</style>  
</head>  
<body>  
  
    <header>  
        <h1>Fictional Tech Product</h1>  
    </header>  
  
    <nav>  
        <a href="#features">Features</a>  
        <a href="#specs">Specifications</a>  
        <a href="#buy">Buy Now</a>  
    </nav>
```

<section id="features">

<h2>Features</h2>

<p>This fictional tech product comes with amazing features to enhance your experience.</p>

Wireless Connectivity

Long Battery Life

High-Resolution Display

Advanced Security

</section>

<section id="specs">

<h2>Specifications</h2>

<p>Check out the technical specifications of our product:</p>

Processor: Quad-core, 2.0 GHz

Memory: 8 GB RAM

Storage: 256 GB SSD

Operating System: TechOS

</section>

```
<aside>

  <h2>Special Offer</h2>

  <p>For a limited time, get a 20% discount on your purchase. Use code:
TECH20.</p>

</aside>


<footer>

  <p>&copy; 2023 Fictional Tech Company | Contact us at
info@fictionaltech.com</p>

</footer>


</body>

</html>
```

14)Design an HTML form to take the information of a customer for booking a travel plan consisting of fields such as name, address, contact no., gender, preferred season(Checkboxes), location type(to be selected from a list) etc. You should provide button to submit as well as reset the form contents

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Travel Plan Booking Form</title>
```



```
<style>

  body {

    font-family: Arial, sans-serif;

    margin: 20px;

  }

  form {

    max-width: 400px;

    margin: auto;

  }

  label {

    display: block;

    margin-bottom: 8px;

  }

  input, select {

    width: 100%;

    padding: 8px;

    margin-bottom: 12px;

    box-sizing: border-box;

  }

  input[type="checkbox"] {

    width: auto;

    margin-right: 5px;

  }
```

```
button {
    background-color: #4CAF50;
    color: white;
    padding: 10px 15px;
    border: none;
    border-radius: 4px;
    cursor: pointer;
}

button[type="reset"] {
    background-color: #f44336;
}

</style>

</head>

<body>

    <form id="travelForm">

        <label for="name">Name:</label>

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

        <label for="address">Address:</label>

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

        <label for="contact">Contact No.:</label>
```

<input type="tel" id="contact" name="contact" required>

<label>Gender:</label>

<input type="radio" id="male" name="gender" value="male" required>

<label for="male">Male</label>

<input type="radio" id="female" name="gender" value="female"
required>

<label for="female">Female</label>

<label for="season">Preferred Season:</label>

<input type="checkbox" id="spring" name="season" value="spring">

<label for="spring">Spring</label>

<input type="checkbox" id="summer" name="season" value="summer">

<label for="summer">Summer</label>

<input type="checkbox" id="autumn" name="season" value="autumn">

<label for="autumn">Autumn</label>

<input type="checkbox" id="winter" name="season" value="winter">

<label for="winter">Winter</label>

<label for="locationType">Location Type:</label>

<select id="locationType" name="locationType" required>

<option value="" disabled selected>Select Location Type</option>

<option value="beach">Beach</option>

<option value="mountain">Mountain</option>

```
<option value="city">City</option>

<option value="countryside">Countryside</option>

</select>


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

<button type="reset">Reset</button>

</form>


<script>

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

    e.preventDefault(); // Prevent the default form submission

    // You can add code here to handle the form submission, e.g., sending
data to a server

    });

</script>


</body>

</html>
```

18) Create a web page, place an image in center and apply 2d transformation on it. (rotation, scaling, translation)

```
<!DOCTYPE html>

<html lang="en">
```

```
<head>

  <meta charset="UTF-8">

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

  <title>2D Transformation Example</title>

  <style>

    body {

      display: flex;

      align-items: center;

      justify-content: center;

      height: 100vh;

      margin: 0;

    }

    img {

      transform-origin: center center;

      transition: transform 0.5s ease-in-out;

    }

  </style>

</head>

<body>


  


  <script>
```

```
const transformImage = document.getElementById('transformImage');

// Rotate the image
transformImage.style.transform = 'rotate(45deg)';

// Scale the image
setTimeout(() => {
    transformImage.style.transform = 'scale(1.5)';
}, 1000);

// Translate the image
setTimeout(() => {
    transformImage.style.transform = 'translate(50px, 50px)';
}, 2000);
</script>

</body>

</html>
```

19) Create a web page in which show a button with a text “start download” , when click in start download a progress bar must be initialized with value 0 then increase by 10 in each second, change the color of progress bar after every three seconds..

```
<!DOCTYPE html>

<html lang="en">
```

```
<head>

  <meta charset="UTF-8">

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

  <title>Download Page</title>

  <style>

    body {

      display: flex;

      align-items: center;

      justify-content: center;

      height: 100vh;

      margin: 0;

    }

    #progressBar {

      width: 300px;

      height: 20px;

      background-color: #ddd;

      border-radius: 5px;

      overflow: hidden;

    }

    #progress {

      height: 100%;

      width: 0;

      background-color: #4CAF50;

      transition: width 0.3s ease;

    }

  </style>
```

```
</head>
```

```
<body>
```

```
<button onclick="startDownload()">Start Download</button>
```

```
<div id="progressBar">
```

```
<div id="progress"></div>
```

```
</div>
```

```
<script>
```

```
function startDownload() {
```

```
    const progressBar = document.getElementById('progress');
```

```
    let progressValue = 0;
```

```
    let intervalId;
```

```
    const changeColor = () => {
```

```
        const colors = ['#4CAF50', '#2196F3', '#FF9800'];
```

```
        const randomColor = colors[Math.floor(Math.random() * colors.length)];
```

```
        progressBar.style.backgroundColor = randomColor;
```

```
    };
```

```
    intervalId = setInterval(() => {
```

```
        progressValue += 10;
```

```
        progressBar.style.width = progressValue + '%';
```

```
        if (progressValue >= 100) {
```



```
        clearInterval(intervalId);
    }

    if (progressValue % 30 === 0) {
        changeColor();
    }
}, 1000);
}
</script>

</body>

</html>
```

21)Write a css3 script for the student registration form with appropriate message display also high light compulsory fields in a different color

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Student Registration Form</title>

    <style>

        body {

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

```
background-color: #f4f4f4;

margin: 0;

display: flex;

align-items: center;

justify-content: center;

height: 100vh;
}

form {

background-color: #fff;

padding: 20px;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

label {

display: block;

margin-bottom: 8px;

font-weight: bold;
}

input {

width: 100%;

padding: 8px;

margin-bottom: 12px;

box-sizing: border-box;
```

```
}  
  
input[type="submit"] {  
    background-color: #4CAF50;  
    color: white;  
    padding: 10px 15px;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
}  
  
input[type="reset"] {  
    background-color: #f44336;  
    color: white;  
    padding: 10px 15px;  
    border: none;  
    border-radius: 4px;  
    cursor: pointer;  
    margin-left: 10px;  
}  
  
.required {  
    color: red;  
}  
  
.message {  
    margin-top: 10px;
```

```
padding: 10px;

background-color: #e7f3fe;

border: 1px solid #4e7dcb;

border-radius: 4px;

display: none;
}

</style>

</head>

<body>

    <form id="registrationForm">

        <label for="firstName">First Name<span
class="required">*</span>:</label>

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

        <label for="lastName">Last Name<span
class="required">*</span>:</label>

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

        <label for="email">Email<span class="required">*</span>:</label>

        <input type="email" id="email" name="email" required>

        <label for="password">Password<span
class="required">*</span>:</label>
```

```
<input type="password" id="password" name="password" required>
```

```
<input type="submit" value="Submit">
```

```
<input type="reset" value="Reset">
```

```
<div class="message" id="successMessage">Registration  
Successful!</div>
```

```
<div class="message" id="errorMessage">Error submitting the form.  
Please try again.</div>
```

```
</form>
```

```
<script>
```

```
const registrationForm = document.getElementById('registrationForm');
```

```
const successMessage = document.getElementById('successMessage');
```

```
const errorMessage = document.getElementById('errorMessage');
```

```
registrationForm.addEventListener('submit', function (e) {
```

```
  e.preventDefault(); // Prevent the default form submission
```

```
  // You can add code here to handle the form submission, e.g., sending  
  data to a server
```

```
  // For demonstration purposes, show a success message
```

```
  successMessage.style.display = 'block';
```

```
        // Clear the form after a delay (in a real scenario, this may be replaced  
with appropriate logic)
```

```
        setTimeout(() => {  
            registrationForm.reset();  
            successMessage.style.display = 'none';  
        }, 3000);  
    });
```

```
    registrationForm.addEventListener('reset', function () {  
        // Reset the success message on form reset  
        successMessage.style.display = 'none';  
    });
```

```
</script>
```

```
</body>
```

```
</html>
```

22) Create a web page to create 3D text. Apply all text effects like text shadow, text overflow, wordwrap etc

```
<!DOCTYPE html>
```

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

```
<head>
```

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

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

```
<title>3D Text Effects</title>
```

```
<style>
```

```
  body {  
    font-family: 'Arial', sans-serif;  
    background-color: #f0f0f0;  
    margin: 0;  
    display: flex;  
    align-items: center;  
    justify-content: center;  
    height: 100vh;  
  }
```

```
  .container {  
    text-align: center;  
  }
```

```
  h1 {  
    font-size: 48px;  
    color: #333;  
    text-shadow: 2px 2px 4px rgba(0, 0, 0, 0.5);  
    margin-bottom: 20px;  
  }
```

```
p {  
    font-size: 18px;  
    line-height: 1.6;  
    color: #555;  
    margin-bottom: 30px;  
}
```

```
.overflow-text {  
    overflow: hidden;  
    white-space: nowrap;  
    text-overflow: ellipsis;  
    max-width: 300px;  
    margin: 0 auto;  
}
```

```
.word-wrap-text {  
    word-wrap: break-word;  
    max-width: 300px;  
    margin: 0 auto;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```



```
<div class="container">

  <h1>3D Text Effects</h1>

  <p>Explore various text effects like text shadow, text overflow, word
wrap, etc.</p>


  <div class="overflow-text">

    <h2>Overflow Text: This is a long text that overflows the container and
is truncated with ellipsis.</h2>

  </div>


  <div class="word-wrap-text">

    <h2>Word Wrap Text: This is a long text that wraps onto the next line
when it reaches the container's width limit.</h2>

  </div>

</div>

</body>

</html>
```

23) Create a web page to display image on screen Apply the following

- a. Display image in tiles**
- b. Rotate image in clockwise and anticlockwise direction**

```
<!DOCTYPE html>
```

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

```
<head>
```

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

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

```
  <title>Image Display with Rotation</title>
```

```
<style>
```

```
  body {
```

```
    margin: 0;
```

```
    display: flex;
```

```
    align-items: center;
```

```
    justify-content: center;
```

```
    height: 100vh;
```

```
    background-color: #f0f0f0;
```

```
  }
```

```
  #imageContainer {
```

```
    display: flex;
```

```
    flex-wrap: wrap;
```

```
  }
```

```
  .imageTile {
```

```
    width: 150px;
```

```
    height: 150px;
```

```
        overflow: hidden;

        border: 1px solid #ddd;

        margin: 5px;
    }

    img {

        max-width: 100%;

        max-height: 100%;

        transform-origin: center center;

        transition: transform 0.3s ease;
    }

    button {

        margin-top: 20px;

        padding: 10px;

        font-size: 16px;

        cursor: pointer;
    }
</style>
</head>
<body>

    <div id="imageContainer">
```

```
<!-- Replace "your-image-url.jpg" with the actual URL or path of your image -->
```

```
<div class="imageTile">
```

```
  
```

```
</div>
```

```
<div class="imageTile">
```

```
  
```

```
</div>
```

```
<div class="imageTile">
```

```
  
```

```
</div>
```

```
<!-- Add more image tiles as needed -->
```

```
</div>
```

```
<button onclick="rotateClockwise()">Rotate Clockwise</button>
```

```
<button onclick="rotateAntiClockwise()">Rotate Anti-clockwise</button>
```

```
<script>
```

```
  function rotateClockwise() {
```

```
    rotateImage("imageContainer", 90);
```

```
  }
```

```
  function rotateAntiClockwise() {
```

```
    rotateImage("imageContainer", -90);
```

```
}
```

```
function rotateImage(containerId, angle) {
```

```
    const container = document.getElementById(containerId);
```

```
    const imageTiles = container.querySelectorAll('.imageTile img');
```

```
    imageTiles.forEach(img => {
```

```
        img.style.transform = `rotate(${angle}deg)`;
```

```
    });
```

```
}
```

```
</script>
```

```
</body>
```

```
</html>
```