AWL PRACTICAL LIST

1.Create a web page for Hostel application using different HTML tags and apply Css to it. create a form and add validation to it using JavaScript

```
index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hostel Application</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>Hostel Application Form</h1>
  <form id="hostelForm">
    <label for="name">Full Name:</label>
    <input type="text" id="name" name="name" required><br><br>
    <label for="age">Age:</label>
    <input type="number" id="age" name="age" required><br><br>
    <label for="gender">Gender:</label>
    <select id="gender" name="gender" required>
      <option value="">Select...</option>
      <option value="male">Male</option>
      <option value="female">Female
      <option value="other">Other</option>
    </select><br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required><br><br>
    <label for="phone">Phone Number:</label>
    <input type="tel" id="phone" name="phone" pattern="[0-9]{10}" required><br><br><br>
    <button type="submit">Submit</button>
  </form>
  <script src="script.js"></script>
</body>
</html>
```

```
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  margin: 0;
  padding: 20px;
}
h1 {
  text-align: center;
  color: #333;
}
form {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
  border: 1px solid #ccc;
  border-radius: 5px;
  background-color: #fff;
}
label {
  display: block;
  margin-bottom: 5px;
  font-weight: bold;
}
input, select {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
  border: 1px solid #ccc;
  border-radius: 3px;
}
button {
  width: 100%;
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
```

```
}
button:hover {
        background-color: #45a049;
script.is
document.getElementById('hostelForm').addEventListener('submit', function(event) {
        // Form validation
        let isValid = true;
        let form = event.target;
        // Name validation
        let name = form.name.value.trim();
        if (name === ") {
                isValid = false;
                 alert('Please enter your full name.');
         }
        // Age validation
        let age = form.age.value;
        if (age === " || isNaN(age) || age <= 0) {
                 isValid = false;
                 alert('Please enter a valid age.');
         }
        // Gender validation
        let gender = form.gender.value;
        if (gender === ") {
                isValid = false;
                 alert('Please select your gender.');
         }
        // Email validation
        let email = form.email.value;
        let emailPattern = /^[\s@]+@[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s]+\.[\s@]+\.[\s@]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s
        if (!emailPattern.test(email)) {
                 isValid = false;
                 alert('Please enter a valid email address.');
        // Phone validation
        let phone = form.phone.value;
        let phonePattern = /^[0-9]{10}$/;
```

```
if (!phonePattern.test(phone)) {
    isValid = false;
    alert('Please enter a valid 10-digit phone number.');
}

if (!isValid) {
    event.preventDefault();
}
});
```

2.Create a web page for Hospital management using different HTML. tags and apply CSS to it, create a form and add validation to it using JavaScript

```
index.html
```

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Hospital Management</title>
 <link rel="stylesheet" href="styles.css">
</head>
<body>
 <h1>Hospital Management Form</h1>
 <form id="hospitalForm">
   <label for="patientName">Patient Name:</label>
   <label for="patientAge">Patient Age:</label>
   <label for="patientGender">Patient Gender:</label>
   <select id="patientGender" name="patientGender" required>
     <option value="">Select...</option>
     <option value="male">Male</option>
     <option value="female">Female
     <option value="other">Other</option>
   </select><br><br>
   <label for="disease">Disease:</label>
   <input type="text" id="disease" name="disease" required><br><br>
   <label for="admissionDate">Admission Date:</label>
```

```
<button type="submit">Submit</button>
  </form>
  <script src="script.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #e0f7fa;
  margin: 0;
  padding: 20px;
h1 {
  text-align: center;
  color: #00796b;
}
form {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
  border: 1px solid #00796b;
  border-radius: 5px;
  background-color: #ffffff;
}
label {
  display: block;
  margin-bottom: 5px;
  font-weight: bold;
input, select {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
  border: 1px solid #00796b;
  border-radius: 3px;
}
button {
```

```
width: 100%;
  padding: 10px;
  background-color: #00796b;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
button:hover {
  background-color: #004d40;
}
script.css
document.getElementById('hospitalForm').addEventListener('submit', function(event) {
  // Form validation
  let isValid = true;
  let form = event.target;
  // Patient Name validation
  let patientName = form.patientName.value.trim();
  if (patientName === ") {
     isValid = false;
     alert('Please enter the patient name.');
  }
  // Patient Age validation
  let patientAge = form.patientAge.value;
  if (patientAge === " \parallel isNaN(patientAge) \parallel patientAge <= 0) \ \{
     isValid = false;
     alert('Please enter a valid age.');
  }
  // Patient Gender validation
  let patientGender = form.patientGender.value;
  if (patientGender === ") {
     isValid = false;
     alert('Please select the patient gender.');
  }
  // Disease validation
  let disease = form.disease.value.trim();
  if (disease === ") {
     isValid = false;
```

```
alert('Please enter the disease.');
}

// Admission Date validation
let admissionDate = form.admissionDate.value;
if (admissionDate === ") {
    isValid = false;
    alert('Please enter the admission date.');
}

if (!isValid) {
    event.preventDefault();
}
});
```

3.Create a web page for Student Registration System for an institute using different HTML tags and apply CSS to it, create a form and nod validation to it using JavaScript

```
index.html
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student Registration</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>Student Registration Form</h1>
  <form id="registrationForm">
    <label for="studentName">Student Name:</label>
    <input type="text" id="studentName" name="studentName" required><br><br>
    <label for="studentAge">Student Age:</label>
    <input type="number" id="studentAge" name="studentAge" required><br><br>
    <label for="studentGender">Student Gender:</label>
    <select id="studentGender" name="studentGender" required>
      <option value="">Select...</option>
      <option value="male">Male</option>
      <option value="female">Female
      <option value="other">Other</option>
    </select><br><br>
```

```
<label for="course">Course:</label>
     <input type="text" id="course" name="course" required><br><br>
    <label for="registrationDate">Registration Date:</label>
    <input type="date" id="registrationDate" name="registrationDate" required><br><br>
    <button type="submit">Submit</button>
  </form>
  <script src="script.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f3e5f5;
  margin: 0;
  padding: 20px;
}
h1 {
  text-align: center;
  color: #6a1b9a;
}
form {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
  border: 1px solid #6a1b9a;
  border-radius: 5px;
  background-color: #ffffff;
}
label {
  display: block;
  margin-bottom: 5px;
  font-weight: bold;
}
input, select {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
```

```
border: 1px solid #6a1b9a;
  border-radius: 3px;
}
button {
  width: 100%;
  padding: 10px;
  background-color: #6a1b9a;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
button:hover {
  background-color: #4a148c;
}
script.css
document.getElementById('registrationForm').addEventListener('submit', function(event) {
  // Form validation
  let isValid = true;
  let form = event.target;
  // Student Name validation
  let studentName = form.studentName.value.trim();
  if (studentName === ") {
    isValid = false;
    alert('Please enter the student name.');
  }
  // Student Age validation
  let studentAge = form.studentAge.value;
  if (studentAge === " || isNaN(studentAge) || studentAge <= 0) {
    isValid = false;
    alert('Please enter a valid age.');
  }
  // Student Gender validation
  let studentGender = form.studentGender.value;
  if (studentGender === ") {
    isValid = false;
    alert('Please select the student gender.');
  }
```

```
// Course validation
  let course = form.course.value.trim();
  if (course === ") {
     isValid = false;
     alert('Please enter the course.');
  }
  // Registration Date validation
  let registrationDate = form.registrationDate.value;
  if (registrationDate === ") {
     isValid = false;
     alert('Please enter the registration date.');
  }
  if (!isValid) {
     event.preventDefault();
  }
});
```

4.Create an HTML Script for a Car Service Center utilizing HTML tags and CSS Features: Enhance content with numerous car workshop photographs and car accessories, as well its details on various car servicing packages. Perform JavaScript Validation

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Car Service Center</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Welcome to Our Car Service Center</h1>
    <nav>
      <a href="#services">Services</a>
        <a href="#packages">Packages</a>
        <a href="#contact">Contact Us</a>
      </nav>
  </header>
```

```
<section id="services">
  <h2>Our Services</h2>
  We offer a variety of car services including:
  <ul>
    Engine Repair
    Oil Change
    Tire Replacement
    Battery Replacement
    Car Wash
  <img src="car-workshop.jpg" alt="Car Workshop">
  <img src="car-accessories.jpg" alt="Car Accessories">
</section>
<section id="packages">
  <h2>Service Packages</h2>
  <div class="package">
    <h3>Basic Package</h3>
    Includes: Oil Change, Tire Rotation, Car Wash
    Price: $50
  </div>
  <div class="package">
    <h3>Standard Package</h3>
    Includes: Oil Change, Tire Rotation, Car Wash, Battery Check
    Price: $80
  </div>
  <div class="package">
    <h3>Premium Package</h3>
    Includes: Oil Change, Tire Rotation, Car Wash, Battery Check, Full Inspection
    Price: $120
  </div>
</section>
<section id="contact">
  <h2>Contact Us</h2>
  <form id="contactForm">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required><br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required><br><br>
    <label for="phone">Phone Number:</label>
```

```
<input type="tel" id="phone" name="phone" pattern="[0-9]{10}" required><br><br>
       <label for="package">Choose a package:</label>
       <select id="package" name="package" required>
         <option value="">Select...</option>
         <option value="basic">Basic</option>
         <option value="standard">Standard</option>
         <option value="premium">Premium</option>
       </select><br><br>
       <button type="submit">Submit</button>
    </form>
  </section>
  <script src="script.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f9f9f9;
  margin: 0;
  padding: 20px;
header {
  background-color: #333;
  color: white;
  padding: 10px 0;
  text-align: center;
}
nav ul {
  list-style-type: none;
  padding: 0;
}
nav ul li {
  display: inline;
  margin: 0 10px;
nav ul li a {
```

```
color: white;
  text-decoration: none;
}
h1, h2 {
  color: #333;
}
section {
  margin-bottom: 30px;
.package {
  border: 1px solid #ccc;
  padding: 10px;
  margin-bottom: 10px;
}
img {
  max-width: 100%;
  height: auto;
  margin: 10px 0;
}
form {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
  border: 1px solid #ccc;
  border-radius: 5px;
  background-color: #fff;
}
label {
  display: block;
  margin-bottom: 5px;
  font-weight: bold;
input, select {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
  border: 1px solid #ccc;
```

```
border-radius: 3px;
}
button {
        width: 100%;
        padding: 10px;
        background-color: #4CAF50;
        color: white;
        border: none;
        border-radius: 3px;
        cursor: pointer;
}
button:hover {
        background-color: #45a049;
}
script.js
document.getElementById('contactForm').addEventListener('submit', function(event) {
        // Form validation
        let is Valid = true;
        let form = event.target;
        // Name validation
        let name = form.name.value.trim();
        if (name === ") {
                isValid = false;
                 alert('Please enter your name.');
         }
        // Email validation
        let email = form.email.value;
       let\ emailPattern = /^[^\s@] + @[^\s@] + \.[^\s@] + \
        if (!emailPattern.test(email)) {
                 isValid = false;
                 alert('Please enter a valid email address.');
         }
        // Phone validation
        let phone = form.phone.value;
        let phonePattern = /^[0-9]{10}$/;
        if (!phonePattern.test(phone)) {
                 isValid = false;
                 alert('Please enter a valid 10-digit phone number.');
```

```
// Package validation
let packageSelected = form.package.value;
if (packageSelected === ") {
    isValid = false;
    alert('Please select a service package.');
}

if (!isValid) {
    event.preventDefault();
}
});
```

5.Create an HTML. Script for a Flower Shop utilizing HTML, fros and CSS features: Enhance content and output with flowers/bouquet photographs etc. as well as details on various car bouquet & combos. Perform JavaScript Validation.

```
index.html
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Flower Shop</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Welcome to Our Flower Shop</h1>
    <nav>
      <a href="#bouquets">Bouquets</a>
        <a href="#combos">Combos</a>
        <a href="#contact">Contact Us</a>
      </nav>
  </header>
  <section id="bouquets">
    <h2>Our Bouquets</h2>
    <div class="product">
      <img src="bouquet1.jpg" alt="Bouquet 1">
      <h3>Classic Bouquet</h3>
```

```
Price: $30
  </div>
  <div class="product">
    <img src="bouquet2.jpg" alt="Bouquet 2">
    <h3>Rose Delight</h3>
    Price: $40
  </div>
  <div class="product">
    <img src="bouquet3.jpg" alt="Bouquet 3">
    <h3>Spring Mix</h3>
    Price: $35
  </div>
</section>
<section id="combos">
  <h2>Our Combos</h2>
  <div class="product">
    <img src="combo1.jpg" alt="Combo 1">
    <h3>Flower & Chocolate Combo</h3>
    Price: $50
  </div>
  <div class="product">
    <img src="combo2.jpg" alt="Combo 2">
    <h3>Flower & Teddy Combo</h3>
    Price: $55
  </div>
  <div class="product">
    <img src="combo3.jpg" alt="Combo 3">
    <h3>Flower & Wine Combo</h3>
    Price: $60
  </div>
</section>
<section id="contact">
  <h2>Contact Us</h2>
  <form id="contactForm">
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required><br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required><br><br>
    <label for="phone">Phone Number:</label>
    <input type="tel" id="phone" name="phone" pattern="[0-9]{10}" required><br><br>
```

```
<label for="product">Choose a product:</label>
      <select id="product" name="product" required>
         <option value="">Select...</option>
         <option value="classic-bouquet">Classic Bouquet
         <option value="rose-delight">Rose Delight
         <option value="spring-mix">Spring Mix</option>
         <option value="flower-chocolate-combo">Flower & Chocolate Combo</option>
         <option value="flower-teddy-combo">Flower & Teddy Combo
         <option value="flower-wine-combo">Flower & Wine Combo</option>
      </select><br><br>
      <button type="submit">Submit</button>
    </form>
  </section>
  <script src="script.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  margin: 0;
  padding: 20px;
}
header {
  background-color: #228b22;
  color: white;
  padding: 10px 0;
  text-align: center;
nav ul {
  list-style-type: none;
  padding: 0;
}
nav ul li {
  display: inline;
  margin: 0 10px;
```

```
nav ul li a {
  color: white;
  text-decoration: none;
h1, h2 {
  color: #228b22;
section {
  margin-bottom: 30px;
}
.product {
  border: 1px solid #ccc;
  padding: 10px;
  margin-bottom: 10px;
  text-align: center;
}
.product img {
  max-width: 100%;
  height: auto;
  margin: 10px 0;
}
form {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
  border: 1px solid #ccc;
  border-radius: 5px;
  background-color: #fff;
}
label {
  display: block;
  margin-bottom: 5px;
  font-weight: bold;
}
input, select {
  width: 100%;
```

```
padding: 8px;
        margin-bottom: 10px;
        border: 1px solid #ccc;
        border-radius: 3px;
button {
        width: 100%;
        padding: 10px;
        background-color: #228b22;
        color: white;
        border: none;
        border-radius: 3px;
        cursor: pointer;
}
button:hover {
        background-color: #196619;
}
script.js
document.getElementById('contactForm').addEventListener('submit', function(event) {
        // Form validation
        let isValid = true;
        let form = event.target;
        // Name validation
        let name = form.name.value.trim();
        if (name === ") {
                 isValid = false;
                 alert('Please enter your name.');
         }
        // Email validation
        let email = form.email.value;
        let emailPattern = /^[\s@]+@[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[^\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s@]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\.[\s]+\
        if (!emailPattern.test(email)) {
                 isValid = false;
                 alert('Please enter a valid email address.');
         }
        // Phone validation
        let phone = form.phone.value;
        let phonePattern = /^[0-9]{10}$/;
```

```
if (!phonePattern.test(phone)) {
    isValid = false;
    alert('Please enter a valid 10-digit phone number.');
}

// Product validation
let productSelected = form.product.value;
if (productSelected === ") {
    isValid = false;
    alert('Please select a product.');
}

if (!isValid) {
    event.preventDefault();
}
});
```

6. Design an e-commerce product page with HTML and CSS, create validation to it using Javascript

```
index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>E-commerce Product Page</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Product Page</h1>
    <nav>
      <a href="#products">Products</a>
        <a href="#cart">Cart</a>
        <a href="#contact">Contact</a>
      </nav>
  </header>
  <section id="products">
    <h2>Our Products</h2>
    <div class="product">
```

```
<img src="product1.jpg" alt="Product 1">
      <h3>Product 1</h3>
      Price: $50
      <button onclick="addToCart('Product 1', 50)">Add to Cart</button>
    </div>
    <div class="product">
      <img src="product2.jpg" alt="Product 2">
      <h3>Product 2</h3>
      Price: $70
      <button onclick="addToCart('Product 2', 70)">Add to Cart/button>
    </div>
    <div class="product">
      <img src="product3.jpg" alt="Product 3">
      <h3>Product 3</h3>
      Price: $100
      <button onclick="addToCart('Product 3', 100)">Add to Cart/button>
    </div>
  </section>
  <section id="cart">
    <h2>Your Cart</h2>
    <form id="cartForm">
      <div id="cartItems"></div>
      <label for="name">Name:</label>
      <input type="text" id="name" name="name" required><br><br>
      <label for="email">Email:</label>
      <input type="email" id="email" name="email" required><br><br>
      <label for="address">Address:</label>
      <input type="text" id="address" name="address" required><br><br>
      <button type="submit">Checkout</button>
    </form>
  </section>
  <script src="script.js"></script>
</body>
</html>
```

```
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f9f9f9;
  margin: 0;
  padding: 20px;
}
header {
  background-color: #333;
  color: white;
  padding: 10px 0;
  text-align: center;
nav ul {
  list-style-type: none;
  padding: 0;
}
nav ul li {
  display: inline;
  margin: 0 10px;
nav ul li a {
  color: white;
  text-decoration: none;
}
h1, h2 {
  color: #333;
}
section {
  margin-bottom: 30px;
}
.product {
  border: 1px solid #ccc;
  padding: 10px;
  margin-bottom: 10px;
  text-align: center;
```

```
.product img {
  max-width: 100%;
  height: auto;
  margin: 10px 0;
}
form {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
  border: 1px solid #ccc;
  border-radius: 5px;
  background-color: #fff;
}
label {
  display: block;
  margin-bottom: 5px;
  font-weight: bold;
input, select {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
  border: 1px solid #ccc;
  border-radius: 3px;
}
button {
  width: 100%;
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
button:hover {
  background-color: #45a049;
```

```
script.js
let cart = [];
function addToCart(productName, productPrice) {
  cart.push({ name: productName, price: productPrice });
  updateCart();
}
function updateCart() {
  let cartItemsDiv = document.getElementById('cartItems');
  cartItemsDiv.innerHTML = ";
  let total = 0;
  cart.forEach((item, index) => {
    total += item.price;
    cartItemsDiv.innerHTML += `
       <div class="cart-item">
         ${item.name} - $${item.price} 
         <button onclick="removeFromCart(${index})">Remove</button>
       </div>
  });
  cartItemsDiv.innerHTML += `Total: $${total}`;
}
function removeFromCart(index) {
  cart.splice(index, 1);
  updateCart();
document.getElementById('cartForm').addEventListener('submit', function(event) {
  let is Valid = true;
  let form = event.target;
  // Name validation
  let name = form.name.value.trim();
  if (name === ") {
    isValid = false;
    alert('Please enter your name.');
  }
  // Email validation
  let email = form.email.value;
```

```
let\ emailPattern = /^[^\s@] + @[^\s@] + \.[^\s@] + \$/;
  if (!emailPattern.test(email)) {
     isValid = false;
     alert('Please enter a valid email address.');
  }
  // Address validation
  let address = form.address.value.trim();
  if (address === ") {
     isValid = false;
     alert('Please enter your address.');
  }
  if (!isValid) {
     event.preventDefault();
  } else {
     alert('Thank you for your purchase!');
     cart = [];
     updateCart();
});
```

7. Create an interactive quiz application using HTML. CSS and JavaScript. The quiz should have the following features:

Display a set of multiple-choice questions with options

Allow users to select an option for each question.

Display the total number of correct answers after submitting the quiz.

Include a "Submit" button to check the answers

index.html

```
<section id="quiz">
  <form id="quizForm">
    <div class="question">
       <h2>1. What is the capital of France?</h2>
       <label><input type="radio" name="q1" value="A"> A. Berlin</label><br>
       <label><input type="radio" name="q1" value="B"> B. Madrid</label><br>
       <label><input type="radio" name="q1" value="C"> C. Paris</label><br>
       <label><input type="radio" name="q1" value="D"> D. Rome</label>
    </div>
    <div class="question">
       <h2>2. Who wrote "To Kill a Mockingbird"?</h2>
       <label><input type="radio" name="q2" value="A"> A. Harper Lee</label><br>
       <label><input type="radio" name="q2" value="B"> B. Mark Twain</label><br>
       <label><input type="radio" name="q2" value="C"> C. J.K. Rowling</label><br>
       <label><input type="radio" name="q2" value="D"> D. Ernest Hemingway</label>
    </div>
    <div class="question">
       <h2>3. What is the largest planet in our solar system?</h2>
       <label><input type="radio" name="q3" value="A"> A. Earth</label><br>
       <label><input type="radio" name="q3" value="B"> B. Jupiter</label><br>
       <label><input type="radio" name="q3" value="C"> C. Saturn</label><br>
       <label><input type="radio" name="q3" value="D"> D. Mars</label>
    </div>
    <div class="question">
       <h2>4. What is the chemical symbol for gold?</h2>
       <label><input type="radio" name="q4" value="A"> A. Au</label><br>
       <label><input type="radio" name="q4" value="B"> B. Ag</label><br>
       <label><input type="radio" name="q4" value="C"> C. Pb</label><br>
       <label><input type="radio" name="q4" value="D"> D. Fe</label>
    </div>
    <div class="question">
       <h2>5. Who painted the Mona Lisa?</h2>
       <label><input type="radio" name="q5" value="A"> A. Vincent van Gogh</label><br/>br>
       <label><input type="radio" name="q5" value="B"> B. Pablo Picasso</label><br>
       <label><input type="radio" name="q5" value="C"> C. Leonardo da Vinci</label><br/>vs>
       <label><input type="radio" name="q5" value="D"> D. Claude Monet</label>
    </div>
    <button type="button" onclick="checkAnswers()">Submit</button>
  </form>
</section>
<section id="result">
  <h2>Your Score: <span id="score"></span></h2>
</section>
```

```
<script src="script.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  margin: 0;
  padding: 20px;
}
header {
  background-color: #4CAF50;
  color: white;
  padding: 10px 0;
  text-align: center;
}
h1, h2 {
  color: #333;
}
section {
  margin-bottom: 30px;
.question {
  margin-bottom: 20px;
  padding: 15px;
  border: 1px solid #ccc;
  border-radius: 5px;
  background-color: #fff;
}
button {
  width: 100%;
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
```

```
}
button:hover {
  background-color: #45a049;
#result {
  display: none;
  text-align: center;
script.js
function checkAnswers() {
  const correctAnswers = {
    q1: 'C',
    q2: 'A',
    q3: 'B',
    q4: 'A',
    q5: 'C'
  };
  let score = 0;
  let totalQuestions = Object.keys(correctAnswers).length;
  for (let question in correctAnswers) {
    let selectedOption = document.guerySelector(`input[name="${question}']:checked`);
    if (selectedOption && selectedOption.value === correctAnswers[question]) {
       score++;
    }
  }
  document.getElementById('score').textContent = `${score} out of ${totalQuestions}`;
  document.getElementById('result').style.display = 'block';
```

8.Create a Survey For using MIMI. CSS and JAvaScript. The form should have the following features:

Display a series of questions with multiple-choice, rating, and open-ended responses Allow users to select or input their responses Include a "Submit" button to submit the survey

Display a thank you message and optionally summarize the responses

```
index.html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Survey Form</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>Survey Form</h1>
  </header>
  <section id="survey">
    <form id="surveyForm">
       <div class="question">
         <h2>1. How satisfied are you with our service?</h2>
         <label><input type="radio" name="q1" value="Very Satisfied"> Very Satisfied</label><br/>br>
         <label><input type="radio" name="q1" value="Satisfied"> Satisfied</label><br>
         <label><input type="radio" name="q1" value="Neutral"> Neutral</label><br>
         <label><input type="radio" name="q1" value="Dissatisfied"> Dissatisfied</label><br><br/>
         <label><input type="radio" name="q1" value="Very Dissatisfied"> Very Dissatisfied</label>
       </div>
       <div class="question">
         <h2>2. Please rate our customer support:</h2>
         <label for="q2">Rating:</label>
         <input type="number" id="q2" name="q2" min="1" max="5">
       </div>
       <div class="question">
         <h2>3. What did you like most about our service?</h2>
         <textarea id="q3" name="q3" rows="4" cols="50"></textarea>
       </div>
       <div class="question">
         <h2>4. Any suggestions for improvement?</h2>
         <textarea id="q4" name="q4" rows="4" cols="50"></textarea>
       </div>
       <button type="button" onclick="submitSurvey()">Submit</button>
    </form>
  </section>
  <section id="thankYou" style="display: none;">
    <h2>Thank you for your feedback!</h2>
    Your responses have been submitted successfully.
```

```
<div id="summary"></div>
  </section>
  <script src="script.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  margin: 0;
  padding: 20px;
header {
  background-color: #4CAF50;
  color: white;
  padding: 10px 0;
  text-align: center;
h1, h2 {
  color: #333;
section {
  margin-bottom: 30px;
}
.question {
  margin-bottom: 20px;
  padding: 15px;
  border: 1px solid #ccc;
  border-radius: 5px;
  background-color: #fff;
}
textarea {
  width: 100%;
  padding: 8px;
  margin-top: 10px;
  border: 1px solid #ccc;
  border-radius: 3px;
```

```
}
button {
  width: 100%;
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
button:hover {
  background-color: #45a049;
#thankYou {
  text-align: center;
}
script.js
function submitSurvey() {
  const surveyForm = document.getElementById('surveyForm');
  const responses = {
    q1: surveyForm.q1.value,
    q2: surveyForm.q2.value,
    q3: surveyForm.q3.value,
    q4: surveyForm.q4.value
  };
  // Display thank you message
  document.getElementById('survey').style.display = 'none';
  document.getElementById('thankYou').style.display = 'block';
  // Optionally display summary of responses
  const summaryDiv = document.getElementById('summary');
  summaryDiv.innerHTML = `
    <h3>Summary of your responses:</h3>
    <strong>Question 1:</strong> ${responses.q1}
    <strong>Question 2:</strong> ${responses.q2}
    <strong>Question 3:</strong> ${responses.q3}
    <strong>Question 4:</strong> ${responses.q4}
}
```

9. Design a True or False Quiz using HTML. CSS, and JavaScript. The quiz should have the following features:

Display a series of true or false questions

Allow users to select either true or false for each question.

Include a Submit button to check the answers.

Display the total number of correct answers after submitting the quiz.

```
index.html
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>True or False Quiz</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <header>
    <h1>True or False Quiz</h1>
  </header>
  <section id="quiz">
    <form id="quizForm">
       <div class="question">
         <h2>1. The sky is blue.</h2>
         <label><input type="radio" name="q1" value="true"> True</label><br>
         <label><input type="radio" name="q1" value="false"> False</label>
       </div>
       <div class="question">
         <h2>2. The capital of Australia is Sydney.</h2>
         <label><input type="radio" name="q2" value="true"> True</label><br>
         <label><input type="radio" name="q2" value="false"> False</label>
       </div>
       <div class="question">
         <h2>3. Water boils at 100 degrees Celsius.</h2>
         <label><input type="radio" name="q3" value="true"> True</label><br>
         <label><input type="radio" name="q3" value="false"> False</label>
       </div>
       <div class="question">
         <h2>4. The human body has 206 bones.</h2>
         <label><input type="radio" name="q4" value="true"> True</label><br>
         <label><input type="radio" name="q4" value="false"> False</label>
       </div>
       <div class="question">
         <h2>5. The Great Wall of China is visible from space.</h2>
```

```
<label><input type="radio" name="q5" value="true"> True</label><br>
         <label><input type="radio" name="q5" value="false"> False</label>
       </div>
       <button type="button" onclick="checkAnswers()">Submit</button>
     </form>
  </section>
  <section id="result" style="display: none;">
     <h2>Your Score: <span id="score"></span></h2>
  </section>
  <script src="script.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  margin: 0;
  padding: 20px;
header {
  background-color: #4CAF50;
  color: white;
  padding: 10px 0;
  text-align: center;
}
h1, h2 {
  color: #333;
}
section {
  margin-bottom: 30px;
}
.question {
  margin-bottom: 20px;
  padding: 15px;
  border: 1px solid #ccc;
  border-radius: 5px;
  background-color: #fff;
```

```
}
button {
  width: 100%;
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
button:hover {
  background-color: #45a049;
}
#result {
  text-align: center;
}
script.js
function checkAnswers() {
  const correctAnswers = {
     q1: 'true',
     q2: 'false',
     q3: 'true',
     q4: 'true',
     q5: 'false'
  };
  let score = 0;
  let totalQuestions = Object.keys(correctAnswers).length;
  for (let question in correctAnswers) {
     let selectedOption = document.querySelector(`input[name="${question}']:checked`);
    if (selectedOption && selectedOption.value === correctAnswers[question]) {
       score++;
  }
  document.getElementById('score').textContent = `${score} out of ${totalQuestions}`;
  document.getElementById('result').style.display = 'block';
}
```

10. Create a web page for Grocery application using different HTML tags and apply CSS to it, create a form and add validation to it using AngularJS.

```
index.html
<!DOCTYPE html>
<a href="html">html lang="en" ng-app="groceryApp">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Grocery Application</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body ng-controller="GroceryController as groceryCtrl">
  <header>
    <h1>Grocery Application</h1>
  </header>
  <section id="groceryForm">
    <form name="groceryForm" ng-submit="groceryCtrl.submitForm()" novalidate>
       <div class="form-group">
         <label>Name:</label>
         <input type="text" name="name" ng-model="groceryCtrl.item.name" required>
         <div ng-show="groceryForm.name.$dirty && groceryForm.name.$error.required"</pre>
class="error">Name is required.</div>
       </div>
       <div class="form-group">
         <label>Quantity:</label>
         <input type="number" name="quantity" ng-model="groceryCtrl.item.quantity" required>
         <div ng-show="groceryForm.quantity.$dirty && groceryForm.quantity.$error.required"</p>
class="error">Quantity is required.</div>
       </div>
       <div class="form-group">
         <label>Price:</label>
         <input type="number" name="price" ng-model="groceryCtrl.item.price" required>
         <div ng-show="groceryForm.price.$dirty && groceryForm.price.$error.required"</pre>
class="error">Price is required.</div>
       </div>
       <button type="submit" ng-disabled="groceryForm.$invalid">Submit</button>
    </form>
  </section>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
  <script src="app.js"></script>
</body>
```

</html>

```
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  margin: 0;
  padding: 20px;
}
header {
  background-color: #4CAF50;
  color: white;
  padding: 10px 0;
  text-align: center;
form {
  max-width: 400px;
  margin: 0 auto;
}
.form-group {
  margin-bottom: 15px;
}
label {
  display: block;
  font-weight: bold;
}
input[type="text"],
input[type="number"] {
  width: 100%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 3px;
}
button {
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
```

```
}
button:hover {
  background-color: #45a049;
.error {
  color: red;
  font-size: 12px;
  margin-top: 5px;
}
app.js
angular.module('groceryApp', [])
  .controller('GroceryController', function() {
    var vm = this;
    vm.item = {};
    vm.submitForm = function() {
       // Process form submission here
       console.log('Form submitted:', vm.item);
       // Clear form after submission
       vm.item = \{\};
       vm.groceryForm.$setPristine();
    };
  });
```

11.Create a web page for Tourism Application using different HTML tags and apply CSS to it, create a form and add validation to it using AngularIS.

index.html

```
<section id="tourismForm">
    <form name="tourismForm" ng-submit="tourismCtrl.submitForm()" novalidate>
       <div class="form-group">
         <label>Name:</label>
         <input type="text" name="name" ng-model="tourismCtrl.booking.name" required>
         <div ng-show="tourismForm.name.$dirty && tourismForm.name.$error.required"</pre>
class="error">Name is required.</div>
       </div>
       <div class="form-group">
         <label>Email:</label>
         <input type="email" name="email" ng-model="tourismCtrl.booking.email" required>
         <div ng-show="tourismForm.email.$dirty && tourismForm.email.$error.required"</pre>
class="error">Email is required.</div>
         <div ng-show="tourismForm.email.$dirty && tourismForm.email.$error.email"</pre>
class="error">Invalid email format.</div>
       </div>
       <div class="form-group">
         <label>Destination:</label>
         <input type="text" name="destination" ng-model="tourismCtrl.booking.destination" required>
         <div ng-show="tourismForm.destination.$dirty && tourismForm.destination.$error.required"</pre>
class="error">Destination is required.</div>
       </div>
       <button type="submit" ng-disabled="tourismForm.$invalid">Submit</button>
    </form>
  </section>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
  <script src="app.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  margin: 0;
  padding: 20px;
header {
  background-color: #4CAF50;
  color: white;
  padding: 10px 0;
  text-align: center;
```

```
}
form {
  max-width: 400px;
  margin: 0 auto;
.form-group {
  margin-bottom: 15px;
}
label {
  display: block;
  font-weight: bold;
}
input[type="text"],
input[type="email"] {
  width: 100%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 3px;
}
button {
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
button:hover {
  background-color: #45a049;
}
.error {
  color: red;
  font-size: 12px;
  margin-top: 5px;
```

```
app.js
angular.module('tourismApp', [])
.controller('TourismController', function() {
    var vm = this;
    vm.booking = {};

vm.submitForm = function() {
    // Process form submission here
    console.log('Form submitted:', vm.booking);
    // Clear form after submission
    vm.booking = {};
    vm.tourismForm.$setPristine();
    };
});
```

12. Create a web page for a Complaint Management Application using different HTML lags and apply CSS to it, create a form and add validation to it using AngularIS.

```
index.html
```

```
<!DOCTYPE html>
<a href="html lang="en" ng-app="complaintApp">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Complaint Management Application</title>
  <link rel="stylesheet" href="styles.css">
<body ng-controller="ComplaintController as complaintCtrl">
  <header>
    <h1>Complaint Management Application</h1>
  </header>
  <section id="complaintForm">
    <form name="complaintForm" ng-submit="complaintCtrl.submitForm()" novalidate>
       <div class="form-group">
         <label>Name:</label>
         <input type="text" name="name" ng-model="complaintCtrl.complaint.name" required>
         <div ng-show="complaintForm.name.$dirty && complaintForm.name.$error.required"</pre>
class="error">Name is required.</div>
       </div>
       <div class="form-group">
         <label>Email:</label>
         <input type="email" name="email" ng-model="complaintCtrl.complaint.email" required>
```

```
<div ng-show="complaintForm.email.$dirty && complaintForm.email.$error.required"</p>
class="error">Email is required.</div>
         <div ng-show="complaintForm.email.$dirty && complaintForm.email.$error.email"</pre>
class="error">Invalid email format.</div>
       </div>
       <div class="form-group">
         <label>Complaint:</label>
         <textarea name="complaint" ng-model="complaintCtrl.complaint.complaint"
required></textarea>
         <div ng-show="complaintForm.complaint.$dirty &&</pre>
complaintForm.complaint.$error.required" class="error">Complaint is required.</div>
       </div>
       <button type="submit" ng-disabled="complaintForm.$invalid">Submit</button>
    </form>
  </section>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
  <script src="app.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  margin: 0;
  padding: 20px;
}
header {
  background-color: #4CAF50;
  color: white;
  padding: 10px 0;
  text-align: center;
}
form {
  max-width: 400px;
  margin: 0 auto;
.form-group {
  margin-bottom: 15px;
```

```
label {
  display: block;
  font-weight: bold;
input[type="text"],
input[type="email"],
textarea {
  width: 100%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 3px;
textarea {
  height: 100px;
button {
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
button:hover {
  background-color: #45a049;
}
.error {
  color: red;
  font-size: 12px;
  margin-top: 5px;
}
app.js
angular.module('complaintApp', [])
  .controller('ComplaintController', function() {
     var vm = this;
     vm.complaint = {};
```

```
vm.submitForm = function() {
    // Process form submission here
    console.log('Form submitted:', vm.complaint);
    // Clear form after submission
    vm.complaint = {};
    vm.complaintForm.$setPristine();
    };
});
```

13. Create a web page for Cake Shop using different HTML tags and apply CSS to it, create a form and add validation to it using AngularJS.

```
index.html
<!DOCTYPE html>
<a href="html lang="en" ng-app="cakeShopApp">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Cake Shop</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body ng-controller="CakeController as cakeCtrl">
  <header>
    <h1>Cake Shop</h1>
  </header>
  <section id="cakeForm">
    <form name="cakeForm" ng-submit="cakeCtrl.submitForm()" novalidate>
       <div class="form-group">
         <label>Name:</label>
         <input type="text" name="name" ng-model="cakeCtrl.order.name" required>
         <div ng-show="cakeForm.name.$dirty && cakeForm.name.$error.required"</pre>
class="error">Name is required.</div>
       </div>
       <div class="form-group">
         <label>Email:</label>
         <input type="email" name="email" ng-model="cakeCtrl.order.email" required>
         <div ng-show="cakeForm.email.$dirty && cakeForm.email.$error.required"</pre>
class="error">Email is required.</div>
         <div ng-show="cakeForm.email.$dirty && cakeForm.email.$error.email" class="error">Invalid
email format.</div>
       </div>
       <div class="form-group">
         <label>Cake Type:</label>
```

```
<select name="cakeType" ng-model="cakeCtrl.order.cakeType" required>
           <option value="">Select</option>
           <option value="Chocolate">Chocolate
           <option value="Vanilla">Vanilla</option>
           <option value="Strawberry">Strawberry</option>
         </select>
         <div ng-show="cakeForm.cakeType.$dirty && cakeForm.cakeType.$error.required"</pre>
class="error">Cake Type is required.</div>
       </div>
       <button type="submit" ng-disabled="cakeForm.$invalid">Submit</button>
  </section>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
  <script src="app.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f0f8ff;
  margin: 0;
  padding: 20px;
}
header {
  background-color: #4CAF50;
  color: white;
  padding: 10px 0;
  text-align: center;
}
form {
  max-width: 400px;
  margin: 0 auto;
}
.form-group {
  margin-bottom: 15px;
}
label {
  display: block;
```

```
font-weight: bold;
input[type="text"],
input[type="email"],
select {
  width: 100%;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 3px;
}
button {
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
}
button:hover {
  background-color: #45a049;
.error {
  color: red;
  font-size: 12px;
  margin-top: 5px;
app.js
angular.module('cakeShopApp', [])
  .controller('CakeController', function() {
     var vm = this;
     vm.order = {};
     vm.submitForm = function() {
       // Process form submission here
       console.log('Form submitted:', vm.order);
       // Clear form after submission
       vm.order = {};
       vm.cakeForm.$setPristine();
     };
```

- 14. Create a React application for the student management system having registration, login, contact, about pages and implement routing to navigate through these pages.
- 15. Create a React application for the employee management system having registration, login, contact, about pages and implement routing to navigate through these pages.
- 16. Create a React application for the hotel management system having registration, login, contact, about pages and implement routing to navigate through these pages.
- 17. Create a React application for the Bookshop having registration, login, contact, about pages and implement routing to navigate through these pages.
- 18. Create a react application for the Online Clothes Shopping system having registration, login, contacl, about pages and implement routing to navigate through these pages.
- 19. Create a To-do Application using React and deploy it. Create add and delete features.
- 20. Create a To-do Application using AngularJS. Create add and delete features.

```
index.html
```

```
<!DOCTYPE html>
<a href="html lang="en" ng-app="todoApp">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>To-do Application</title>
  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body ng-controller="TodoController as todoCtrl">
  <h1>To-do Application</h1>
  ul>
    Ii ng-repeat="task in todoCtrl.tasks track by $index">
       {{ task }}
       <button ng-click="todoCtrl.deleteTask($index)">Delete</button>
```

```
<input type="text" ng-model="todoCtrl.newTask" placeholder="Add a new task">
  <button ng-click="todoCtrl.addTask()">Add</button>
  <script src="app.js"></script>
</body>
</html>
styles.css
app.js
angular.module('todoApp', [])
  .controller('TodoController', function() {
    var vm = this;
    vm.tasks = [];
    vm.newTask = ";
    vm.addTask = function() {
       if (vm.newTask.trim() !== ") {
         vm.tasks.push(vm.newTask);
         vm.newTask = ";
    };
    vm.deleteTask = function(index) {
       vm.tasks.splice(index, 1);
    };
  });
```

21. Create a To-do Application using JavaScript. Create add and delete features.

index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>To-do Application</title>
link rel="stylesheet" href="styles.css">
</head>
<body>
<div class="container">
<h1>To-do Application</h1>
<input type="text" id="taskInput" placeholder="Enter a new task">
<button onclick="addTask()">Add</button>
```

```
ul id="taskList">
</div>
<script src="app.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  margin: 0;
  padding: 0;
.container {
  max-width: 600px;
  margin: 50px auto;
  padding: 20px;
  background-color: #fff;
  border-radius: 5px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}
h1 {
  text-align: center;
  margin-bottom: 20px;
}
input[type="text"] {
  width: 70%;
  padding: 8px;
  margin-right: 10px;
  border: 1px solid #ccc;
  border-radius: 3px;
}
button {
  padding: 8px 15px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 3px;
  cursor: pointer;
```

```
button:hover {
  background-color: #45a049;
}
ul {
  list-style-type: none;
  padding: 0;
li {
  padding: 10px;
  margin-bottom: 5px;
  background-color: #f9f9f9;
  border-radius: 3px;
}
.delete {
  float: right;
  color: red;
  cursor: pointer;
app.js
let tasks = [];
function addTask() {
  const taskInput = document.getElementById('taskInput');
  const taskList = document.getElementById('taskList');
  if (taskInput.value.trim() !== ") {
     tasks.push(taskInput.value.trim());
     displayTasks();
     taskInput.value = ";
}
function deleteTask(index) {
  tasks.splice(index, 1);
  displayTasks();
}
function displayTasks() {
  const taskList = document.getElementById('taskList');
```

```
taskList.innerHTML = ";
  tasks.forEach((task, index) => {
    const li = document.createElement('li');
    li.textContent = task;
    const deleteButton = document.createElement('span');
     deleteButton.textContent = 'x';
     deleteButton.className = 'delete';
    deleteButton.onclick = () => deleteTask(index);
    li.appendChild(deleteButton);
    taskList.appendChild(li);
  });
}
window.onload = function () {
  displayTasks();
};
22. Create a custom server using the http module and explore the other modules of Node IS
like OS, path, event
http
const http = require('http');
const server = http.createServer((req, res) => {
 res.statusCode = 200;
 res.setHeader('Content-Type', 'text/plain');
 res.end('Hello, World!\n');
});
const PORT = 3000;
server.listen(PORT, () => {
console.log(`Server running at http://localhost:${PORT}/`);
});
const os = require('os');
console.log('OS Platform:', os.platform());
console.log('OS Architecture:', os.arch());
console.log('CPU Cores:', os.cpus().length);
console.log('Total Memory:', os.totalmem() / 1024 / 1024, 'MB');
```

```
console.log('Free Memory:', os.freemem() / 1024 / 1024, 'MB');
path
const path = require('path');
const filePath = '/path/to/file.txt';
console.log('File Name:', path.basename(filePath));
console.log('Directory Name:', path.dirname(filePath));
console.log('File Extension:', path.extname(filePath));
events
const EventEmitter = require('events');
class MyEmitter extends EventEmitter {}
const myEmitter = new MyEmitter();
myEmitter.on('greet', () => {
 console.log('Hello, World!');
});
myEmitter.emit('greet');
23. Create a course management system using MySQL connectivity with Node.S to perform
CRUD operations using MySQL Connectivity with Node JS
Setting up the project
mkdir course-management-system
cd course-management-system
npm init -y
npm install express mysql body-parser
Creating database
CREATE DATABASE course management;
USE course management;
CREATE TABLE courses (
  id INT AUTO INCREMENT PRIMARY KEY,
  name VARCHAR(255) NOT NULL,
  description TEXT,
  duration INT
);
```

```
Setting up the node.js server(server.js)
const express = require('express');
const mysql = require('mysql');
const bodyParser = require('body-parser');
const app = express();
const port = 3000;
app.use(bodyParser.json());
// MySQL connection
const db = mysql.createConnection({
 host: 'localhost',
 user: 'your-username',
 password: 'your-password',
 database: 'course management'
});
db.connect(err => {
if (err) throw err;
 console.log('MySQL connected...');
});
// CRUD operations
// Create a new course
app.post('/courses', (req, res) => {
 const newCourse = req.body;
 const sql = 'INSERT INTO courses SET ?';
 db.query(sql, newCourse, (err, result) => {
  if (err) throw err;
  res.send('Course added...');
 });
});
// Read all courses
app.get('/courses', (req, res) => {
 const sql = 'SELECT * FROM courses';
 db.query(sql, (err, results) => {
  if (err) throw err;
  res.send(results);
 });
});
```

```
// Read a single course by ID
app.get('/courses/:id', (req, res) => {
 const sql = 'SELECT * FROM courses WHERE id = ?';
 db.query(sql, [req.params.id], (err, result) => {
  if (err) throw err;
  res.send(result);
 });
});
// Update a course by ID
app.put('/courses/:id', (req, res) => {
 const updatedCourse = req.body;
 const sql = 'UPDATE courses SET? WHERE id =?';
 db.query(sql, [updatedCourse, req.params.id], (err, result) => {
  if (err) throw err;
  res.send('Course updated...');
 });
});
// Delete a course by ID
app.delete('/courses/:id', (req, res) => {
 const sql = 'DELETE FROM courses WHERE id = ?';
 db.query(sql, [req.params.id], (err, result) => {
  if (err) throw err;
  res.send('Course deleted...');
 });
});
app.listen(port, () => {
 console.log(`Server running on port ${port}`);
});
```

24. Create a web page for movie ticket booking application using different HTML tags and apply CSS to it, create a form and add validation to it using JavaScript

```
index.html
```

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Movie Ticket Booking</title>
link rel="stylesheet" href="styles.css">
</head>
```

```
<body>
<div class="container">
<h1>Movie Ticket Booking</h1>
<form id="bookingForm" onsubmit="return validateForm()">
<label for="name">Name:</label>
<input type="text" id="name" name="name" required>
<label for="email">Email:</label>
<input type="email" id="email" name="email" required>
<label for="movie">Select Movie:</label>
<select id="movie" name="movie" required>
<option value="">Select</option>
<option value="movie1">Movie 1</option>
<option value="movie2">Movie 2</option>
<option value="movie3">Movie 3</option>
</select>
<label for="tickets">Number of Tickets:</label>
<input type="number" id="tickets" name="tickets" min="1" max="10" required>
<button type="submit">Book Tickets</button>
</form>
<div id="message"></div>
</div>
<script src="script.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  margin: 0;
  padding: 0;
}
.container {
  max-width: 600px;
  margin: 50px auto;
  padding: 20px;
  background-color: #fff;
  border-radius: 5px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}
h1 {
  text-align: center;
```

```
margin-bottom: 20px;
}
form {
  display: flex;
  flex-direction: column;
}
label {
  margin-bottom: 5px;
}
input,
select,
button {
  margin-bottom: 10px;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 3px;
}
button {
  background-color: #4CAF50;
  color: white;
  border: none;
  cursor: pointer;
}
button:hover {
  background-color: #45a049;
}
#message {
  margin-top: 20px;
  text-align: center;
  font-weight: bold;
}
script.js
function validateForm() {
  var name = document.getElementById('name').value;
  var email = document.getElementById('email').value;
  var movie = document.getElementById('movie').value;
  var tickets = document.getElementById('tickets').value;
```

```
if (name.trim() === " || email.trim() === " || movie.trim() === " || tickets.trim() === ") {
    showMessage('Please fill in all fields');
    return false:
  }
  if (!validateEmail(email)) {
    showMessage('Invalid email address');
    return false;
  }
  showMessage('Tickets booked successfully');
  return true;
function validateEmail(email) {
  var re = \S+@\S+\.\S+/;
  return re.test(email);
}
function showMessage(message) {
  var messageElement = document.getElementById('message');
  messageElement.textContent = message;
}
```

25. Create a web page for a Doctor's Appointment Application using different HTML tags and apply CSS to it, create a form and add validation to it using AngularJS.

index.html

```
<!DOCTYPE html>
<html lang="en" ng-app="appointmentApp">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Doctor's Appointment Application</title>
link rel="stylesheet" href="styles.css">
</head>
<body ng-controller="AppointmentController as appCtrl">
<div class="container">
<h1>Doctor's Appointment Application</h1>
<form name="appointmentForm" novalidate>
<label for="name">Name:</label>
<input type="text" id="name" name="name" ng-model="appCtrl.appointment.name" required>
<label for="email">Email:</label></label>
```

```
<input type="email" id="email" name="email" ng-model="appCtrl.appointment.email" required>
<label for="date">Date:</label>
<input type="date" id="date" name="date" ng-model="appCtrl.appointment.date" required>
<label for="time">Time:</label>
<input type="time" id="time" name="time" ng-model="appCtrl.appointment.time" required>
<button type="submit" ng-disabled="appointmentForm.$invalid"</pre>
ng-click="appCtrl.bookAppointment()">Book Appointment</button>
</form>
<div ng-if="appCtrl.successMessage" class="success-message">{{ appCtrl.successMessage }}</div>
</div>
<script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
<script src="app.js"></script>
</body>
</html>
styles.css
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  margin: 0;
  padding: 0;
.container {
  max-width: 600px;
  margin: 50px auto;
  padding: 20px;
  background-color: #fff;
  border-radius: 5px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}
h1 {
  text-align: center;
  margin-bottom: 20px;
}
form {
  display: flex;
  flex-direction: column;
}
label {
  margin-bottom: 5px;
```

```
}
input,
button {
  margin-bottom: 10px;
  padding: 8px;
  border: 1px solid #ccc;
  border-radius: 3px;
button {
  background-color: #4CAF50;
  color: white;
  border: none;
  cursor: pointer;
}
button:disabled {
  background-color: #ccc;
  color: #888;
  cursor: not-allowed;
.success-message {
  margin-top: 20px;
  text-align: center;
  font-weight: bold;
  color: #4CAF50;
}
app.js
angular.module('appointmentApp', [])
  .controller('AppointmentController', function() {
     var vm = this;
     vm.appointment = {};
     vm.bookAppointment = function() {
       // Simulating booking logic
       vm.successMessage = 'Appointment booked successfully!';
    };
  });
```