

30 Write javascript code 1) to check weather number is pelindrom or not and prime or not. take the input from user. 2) create a calculator in which when you click on "+" button then it will give sum of numbers.same for multiplication , subtraction and division

```
<head>
<script>
let num = prompt("Enter a number: ");

// Function to check if the number is palindrome
function isPalindrome(n) {
    // Convert number to string and split into array of characters
    let str = n.toString().split("");
    // Reverse the array and join back to form string
    let revStr = str.reverse().join("");
    // Check if original number equals the reversed string
    return n == revStr;
}

// Function to check if the number is prime
function isPrime(n) {
    // Check for edge cases
    let flag = 0
    for (i = 2; i <= n / 2; i++) {
        if (n % i == 0) {
            flag = 1
        }
    }
    if (flag == 1) {
        return false
    }
    else {
        return true
    }
}

// Call the functions and display results
if (isPalindrome(num)) {
    document.write(num + " is a palindrome <br>")
    console.log(num + " is a palindrome <br>");
} else {
    document.write(num + " is not a palindrome <br>")
    console.log(num + " is not a palindrome <br>");

}

if (isPrime(num)) {
    document.write(num + " is a prime number <br>")
    console.log(num + " is a prime number <br>");
} else {
    document.write(num + " is not a prime number <br>")
    console.log(num + " is not a prime number <br>");

}
```

```

</script>

</head>

<body>
<h1>Simple Calculator</h1>
<label for="num1">Enter first number:</label>
<input type="number" id="num1"><br><br>
<label for="num2">Enter second number:</label>
<input type="number" id="num2"><br><br>
<button onclick="add()">+</button>
<button onclick="subtract()">-</button>
<button onclick="multiply()">*</button>
<button onclick="divide()">/</button><br><br>
<label for="result">Result:</label>
<input type="text" id="result" disabled>

<script>
// Take input from user
function add() {
    let num1 = parseFloat(document.getElementById("num1").value);
    let num2 = parseFloat(document.getElementById("num2").value);
    let result = num1 + num2;
    document.getElementById("result").value = result;
}
function subtract() {
    let num1 = parseFloat(document.getElementById("num1").value);
    let num2 = parseFloat(document.getElementById("num2").value);
    let result = num1 - num2;
    document.getElementById("result").value = result;
}
function multiply() {
    let num1 = parseFloat(document.getElementById("num1").value);
    let num2 = parseFloat(document.getElementById("num2").value);
    let result = num1 * num2;
    document.getElementById("result").value = result;
}
function divide() {
    let num1 = parseFloat(document.getElementById("num1").value);
    let num2 = parseFloat(document.getElementById("num2").value);
    let result = num1 / num2;
    document.getElementById("result").value = result;
}
</script>
</body>

</html>

```

29 Develop a recipe website using HTML and Bootstrap that includes navigation bar with a homepage, show the list of recipe when you click

on recipe list the particular recipe image will open with its description.

```
<!DOCTYPE html>
<html>

<head>
  <title>Recipe Website</title>
  <!-- Include Bootstrap CSS -->
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <!-- Include jQuery and Bootstrap JS -->
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@1.16.0/dist/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
  <script>
    // Function to show recipe modal
    function showRecipe(recipeId) {
      $('#'+recipeId).modal('show');
    }
  </script>
</head>

<body>
  <!-- Navigation Bar -->
  <nav class="navbar navbar-expand-sm bg-dark navbar-dark">
    <!-- Homepage link -->
    <a class="navbar-brand" href="#">Recipe Website</a>
    <!-- Navigation links -->
    <ul class="navbar-nav">
      <li class="nav-item active">
        <a class="nav-link" href="#">Recipes</a>
      </li>
    </ul>
  </nav>

  <!-- Recipe List -->
  <div class="container mt-5">
    <h1 class="text-center">Recipe List</h1>
    <div class="row mt-5">
      <!-- Recipe 1 -->
      <div class="col-md-4">
        <div class="card">
          
          <div class="card-body">
            <h4 class="card-title">Recipe 1</h4>
            <p class="card-text">Description of Recipe 1</p>
          </div>
        </div>
      </div>
      <!-- Recipe 2 -->
      <div class="col-md-4">
        <div class="card">
```

```

<div class="card-body">
  <h4 class="card-title">Recipe 2</h4>
  <p class="card-text">Description of Recipe 2</p>
</div>
</div>
<!-- Recipe 3 -->
<div class="col-md-4">
  <div class="card">
    
    <div class="card-body">
      <h4 class="card-title">Recipe 3</h4>
      <p class="card-text">Description of Recipe 3</p>
    </div>
  </div>
</div>
</div>
</div>

<!-- Recipe Modals -->
<!-- Recipe 1 -->
<div class="modal fade" id="recipe1">
  <div class="modal-dialog modal-dialog-centered modal-lg">
    <div class="modal-content">
      <div class="modal-header">
        <h4 class="modal-title">Recipe 1</h4>
        <button type="button" class="close" data-dismiss="modal">&times;</button>
      </div>
      <div class="modal-body">
        
        <p>Description of Recipe 1</p>
        <h5>Ingredients</h5>
        <ul>
          <li>Ingredient 1</li>
          <li>Ingredient 2</li>
          <li>Ingredient 3</li>
        </ul>
        <h5>Instructions</h5>
        <ol>
          <li>Step 1</li>
          <li>Step 2</li>
          <li>Step 3</li>
        </ol>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
      </div>
    </div>
  </div>
</div>

<!-- Recipe 2 -->
<div class="modal fade" id="recipe2">
```

```
<div class="modal-dialog modal-dialog-centered modal-lg">
  <div class="modal-content">
    <div class="modal-header">
      <h4 class="modal-title">Recipe 2</h4>
      <button type="button" class="close" data-dismiss="modal">&times;</button>
    </div>
    <div class="modal-body">
      
      <p>Description of Recipe 2</p>
      <h5>Ingredients</h5>
      <ul>
        <li>Ingredient 1</li>
        <li>Ingredient 2</li>
        <li>Ingredient 3</li>
      </ul>
      <h5>Instructions</h5>
      <ol>
        <li>Step 1</li>
        <li>Step 2</li>
        <li>Step 3</li>
      </ol>
    </div>
    <div class="modal-footer">
      <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
    </div>
  </div>
</div>
```

```
<!-- Recipe 3 -->
<div class="modal fade" id="recipe3">
  <div class="modal-dialog modal-dialog-centered modal-lg">
    <div class="modal-content">
      <div class="modal-header">
        <h4 class="modal-title">Recipe 3</h4>
        <button type="button" class="close" data-dismiss="modal">&times;</button>
      </div>
      <div class="modal-body">
        
        <p>Description of Recipe 3</p>
        <h5>Ingredients</h5>
        <ul>
          <li>Ingredient 1</li>
          <li>Ingredient 2</li>
          <li>Ingredient 3</li>
        </ul>
        <h5>Instructions</h5>
        <ol>
          <li>Step 1</li>
          <li>Step 2</li>
          <li>Step 3</li>
        </ol>
      </div>
      <div class="modal-footer">
```

```
<button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
</div>
</div>
</div>
</body>
</html>
```

28 Create a registration form that validates user inputs such as name, email, phone number, password, and confirms password. You can use regular expressions to validate the inputs and display error messages if the user inputs are not valid.

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

<head>
<meta charset="UTF-8">
<title>Registration Form</title>
<style>
label {
  display: block;
  margin-bottom: 5px;
}

input {
  margin-bottom: 10px;
  padding: 5px;
}

.error {
  border: 1px solid red;
}

.error-message {
  color: red;
  font-size: 12px;
  margin-top: 5px;
}

button {
  margin-top: 10px;
  padding: 5px 10px;
}
</style>
</head>

<body>
<h1>Registration Form</h1>
<form id="registration-form">
<label for="name-input">Name:</label>
<input type="text" id="name-input" name="name" required>
```

```

<div class="error-message" id="name-error"></div>

<label for="email-input">Email:</label>
<input type="email" id="email-input" name="email" required>
<div class="error-message" id="email-error"></div>

<label for="phone-input">Phone Number:</label>
<input type="tel" id="phone-input" name="phone" required>
<div class="error-message" id="phone-error"></div>

<label for="password-input">Password:</label>
<input type="password" id="password-input" name="password" required>
<div class="error-message" id="password-error"></div>

<label for="confirm-password-input">Confirm Password:</label>
<input type="password" id="confirm-password-input" name="confirm-password" required>
<div class="error-message" id="confirm-password-error"></div>

<button type="submit">Register</button>
</form>
</body>
<script>
  // Input validation regex patterns
  // Input validation regex patterns
  const nameRegex = /^[A-Za-z\s]+$/;
  const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
  const phoneRegex = /^\d{10}$/;
  const passwordRegex = /^(?=.*\d)(?=.*[!@#$%^&*])(?=.*[a-z])(?=.*[A-Z]).{8,}$/;

  // Input elements
  const nameInput = document.getElementById('name-input');
  const emailInput = document.getElementById('email-input');
  const phoneInput = document.getElementById('phone-input');
  const passwordInput = document.getElementById('password-input');
  const confirmPasswordInput = document.getElementById('confirm-password-input');

  // Error message elements
  const nameError = document.getElementById('name-error');
  const emailError = document.getElementById('email-error');
  const phoneError = document.getElementById('phone-error');
  const passwordError = document.getElementById('password-error');
  const confirmPasswordError = document.getElementById('confirm-password-error');

  // Event listeners for input validation
  nameInput.addEventListener('input', function () {
    validateInput(nameInput, nameError, nameRegex, 'Name should contain only letters and spaces.');
  });

  emailInput.addEventListener('input', function () {
    validateInput(emailInput, emailError, emailRegex, 'Invalid email address.');
  });

  phoneInput.addEventListener('input', function () {
    validateInput(phoneInput, phoneError, phoneRegex, 'Phone number should be 10 digits.');
  });

```

```
});

passwordInput.addEventListener('input', function () {
    validateInput(passwordInput, passwordError, passwordRegex, 'Password should contain at least 8 characters, including numbers and symbols.');
    validateConfirmPassword(confirmPasswordInput, passwordInput, confirmPasswordError, 'Passwords do not match.');
});

confirmPasswordInput.addEventListener('input', function () {
    validateConfirmPassword(confirmPasswordInput, passwordInput, confirmPasswordError, 'Passwords do not match.');
});

// Input validation function
function validateInput(input, error, regex, message) {
    if (!regex.test(input.value)) {
        error.innerHTML = message;
        input.classList.add('error');
    } else {
        error.innerHTML = "";
        input.classList.remove('error');
    }
}

// Confirm password validation function
function validateConfirmPassword(confirmInput, originalInput, error, message) {
    if (confirmInput.value !== originalInput.value) {
        error.innerHTML = message;
        confirmInput.classList.add('error');
    } else {
        error.innerHTML = "";
        confirmInput.classList.remove('error');
    }
}

// Form validation function
function validateForm() {
    let valid = true;

    validateInput(nameInput, nameError, nameRegex, 'Name should contain only letters and spaces.');
    validateInput(emailInput, emailError, emailRegex, 'Invalid email address.');
    validateInput(phoneInput, phoneError, phoneRegex, 'Phone number should be 10 digits.');
    validateInput(passwordInput, passwordError, passwordRegex, 'Password should contain at least 8 characters, including numbers and symbols.');
    validateConfirmPassword(confirmPasswordInput, passwordInput, confirmPasswordError, 'Passwords do not match.');

    if (document.querySelectorAll('.error').length > 0) {
        valid = false;
    }

    return valid;
}
```

```
</script>
```

```
</html>
```

27 Create a personal portfolio website to showcase your skills, projects, and achievements. You can include features like a homepage, about section, project gallery, and contact form using css and HTML.

https://github.com/SampurnaC/portfolio_website_fcc/tree/master

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

<head>
  <title>Portfolio Website-Brad</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <!-- linking css file -->
  <link rel="stylesheet" href="style.css">
  <!-- bootstrap CDN -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>
  <!-- font awesome -->
  <script src="https://kit.fontawesome.com/31149d48b0.js" crossorigin="anonymous"></script>
</head>
<style>
  /* display background color black on navbar scroll */
  .navbarScroll.navbarDark {
    background-color: black;
  }

  /* hero background image */
  .bgimage {
    height: 100vh;
    background: url('images/herolImage.jpeg');
    background-size: cover;
    position: relative;
  }

  /* text css above hero image*/
  .hero_title {
    font-size: 4.5rem;
  }

  .hero_desc {
    font-size: 2rem;
  }
</style>
```

```
.hero-text {  
    text-align: center;  
    position: absolute;  
    top: 50%;  
    left: 50%;  
    transform: translate(-50%, -50%);  
    color: white;  
}  
  
/* spacing on all sections */  
/* #about, #services, #portfolio, #contact {  
    margin-top: 4rem;  
    padding-top: 4rem;  
} */  
#contact {  
    padding-bottom: 4rem;  
}  
  
/* about section image css */  
.imageAboutPage {  
    width: 100%;  
}  
  
/* services section css */  
.servicesText.card {  
    height: 280px;  
    cursor: pointer;  
}  
  
.servicesIcon {  
    font-size: 36px;  
    text-align: center;  
    width: 100%;  
}  
  
.card-title {  
    text-align: center;  
}  
  
.card:hover .servicesIcon {  
    color: #008000;  
}  
  
.servicesText:hover {  
    border: 1px solid #008000;  
}  
  
/* social media icons styling */  
.social-icons {  
    font-size: 36px;  
    cursor: pointer;  
}  
  
.fa-facebook:hover,
```

```

.fa-instagram:hover,
.fa-twitter:hover,
.fa-linkedin:hover,
.fa-twitch:hover {
  color: #008000;
}

.fab {
  color: #000000;
}

/* footer styling */
#footer {
  background-color: #808080;
  text-align: center;
}
</style>

<body>
<!-- navbar -->
<nav class="navbar navbar-expand-lg fixed-top navbar-dark navbarScroll">
  <div class="container">
    <a class="navbar-brand" href="#">Brad</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent"
      aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav ms-auto">
        <li class="nav-item active">
          <a class="nav-link" href="#home">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#about">About</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#services">Services</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#portfolio">Portfolio</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#contact">Contact</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
<!-- main banner -->
<section class="bgimage" id="home">
  <div class="container-fluid">
    <div class="row">

```

```
<div class="col-lg-12 col-md-12 col-sm-12 col-xs-12 hero-text">
  <h2 class="hero_title">Hi, it's me Brad</h2>
  <p class="hero_desc">I am a professional freelancer in New York City</p>
</div>
</div>
</div>
</div>

<!-- about section-->
<section id="about">
  <div class="container mt-4 pt-4">
    <h1 class="text-center">About Me</h1>
    <div class="row mt-4">
      <div class="col-lg-4">
        
      </div>

      <div class="col-lg-8">
        <p> Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took
          a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries,
          but
          also the leap into electronic typesetting, remaining essentially unchanged
        </p>
        <div class="row mt-3">
          <div class="col-md-6">
            <ul>
              <li>Name: David Parker</li>
              <li>Age: 28</li>
              <li>Occupation: Web Developer</li>
            </ul>
          </div>
          <div class="col-md-6">
            <ul>
              <li>Name: David Parker</li>
              <li>Age: 28</li>
              <li>Occupation: Web Developer</li>
            </ul>
          </div>
        </div>
        <div class="row mt-3">
          <p> Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown
          printer
          took a galley of type and scrambled it to make a type specimen book. It has survived not only five
          centuries, but also the leap into electronic typesetting, remaining essentially unchanged.
          Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown
          printer took
          a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries,
          but also the leap into electronic typesetting, remaining essentially unchanged.
        </p>
      </div>
    </div>
  </div>
</section>
```

```
</div>
</div>
</section>

<!-- services section--&gt;
&lt;section id="services"&gt;
&lt;div class="container"&gt;
&lt;h1 class="text-center"&gt;Services&lt;/h1&gt;
&lt;div class="row"&gt;
&lt;div class="col-lg-4 mt-4"&gt;
&lt;div class="card servicesText"&gt;
&lt;div class="card-body"&gt;
&lt;i class="fas servicesIcon fa-clock"&gt;&lt;/i&gt;
&lt;h4 class="card-title mt-3"&gt;Website Development&lt;/h4&gt;
&lt;p class="card-text mt-3"&gt;Some quick example text to build on the card title and make up the bulk of
the
    card's content.
    Some quick example text to build on the card title and make up the bulk of the card's content.
&lt;/p&gt;
&lt;/div&gt;
&lt;/div&gt;
&lt;/div&gt;
&lt;div class="col-lg-4 mt-4"&gt;
&lt;div class="card servicesText"&gt;
&lt;div class="card-body"&gt;
&lt;i class='fas servicesIcon fa-layer-group'&gt;&lt;/i&gt;
&lt;h4 class="card-title mt-3"&gt;Website Design&lt;/h4&gt;
&lt;p class="card-text mt-3"&gt;Some quick example text to build on the card title and make up the bulk of
the
    card's content.
    Some quick example text to build on the card title and make up the bulk of the card's content.
&lt;/p&gt;
&lt;/div&gt;
&lt;/div&gt;
&lt;/div&gt;

&lt;div class="col-lg-4 mt-4"&gt;
&lt;div class="card servicesText"&gt;
&lt;div class="card-body"&gt;
&lt;i class='far servicesIcon fa-check-circle'&gt;&lt;/i&gt;
&lt;h4 class="card-title mt-3"&gt;Website Deployment&lt;/h4&gt;
&lt;p class="card-text mt-3"&gt;Some quick example text to build on the card title and make up the bulk of
the
    card's content.
    Some quick example text to build on the card title and make up the bulk of the card's content.
&lt;/p&gt;
&lt;/div&gt;
&lt;/div&gt;
&lt;/div&gt;
&lt;/div&gt;

&lt;div class="row"&gt;
&lt;div class="col-lg-4 mt-4"&gt;
&lt;div class="card servicesText"&gt;</pre>
```

```
<div class="card-body">
  <i class='fas servicesIcon fa-search'></i>
  <h4 class="card-title mt-3">SEO</h4>
  <p class="card-text mt-3">Some quick example text to build on the card title and make up the bulk of
the
  card's content.
  Some quick example text to build on the card title and make up the bulk of the card's content.
</p>
</div>
</div>
</div>

<div class="col-lg-4 mt-4">
  <div class="card servicesText">
    <div class="card-body">
      <i class='fas servicesIcon fa-shield-alt'></i>
      <h4 class="card-title mt-3">DevOps</h4>
      <p class="card-text mt-3">Some quick example text to build on the card title and make up the bulk of
the
  card's content.
  Some quick example text to build on the card title and make up the bulk of the card's content.
</p>
</div>
</div>
</div>

<div class="col-lg-4 mt-4">
  <div class="card servicesText">
    <div class="card-body">
      <i class='fas servicesIcon fa-wrench'></i>
      <h4 class="card-title mt-3">QA</h4>
      <p class="card-text mt-3">Some quick example text to build on the card title and make up the bulk of
the
  card's content.
  Some quick example text to build on the card title and make up the bulk of the card's content.
</p>
</div>
</div>
</div>
</div>
</div>

<!-- portfolio section-->
<section id="portfolio">
<div class="container mt-3">
  <h1 class="text-center">Portfolio</h1>
  <div class="row">
    <div class="col-lg-4 mt-4">
      <div class="card">
        
        <div class="card-body">
          <h4 class="card-title">YouTube Clone</h4>
          <p class="card-text">Lorem Ipsum is simply dummy text of the printing and typesetting industry.</p>
```

```

<div class="text-center">
  <a href="#" class="btn btn-success">Link</a>
</div>
</div>
</div>
</div>

<div class="col-lg-4 mt-4">
  <div class="card portfolioContent">
    
    <div class="card-body">
      <h4 class="card-title">Quiz App</h4>
      <p class="card-text">Lorem Ipsum is simply dummy text of the printing and typesetting industry.</p>
      <div class="text-center">
        <a href="#" class="btn btn-success">Link</a>
      </div>
    </div>
  </div>
</div>
</div>

<div class="col-lg-4 mt-4">
  <div class="card portfolioContent">
    
    <div class="card-body">
      <h4 class="card-title">Product Landing Page</h4>
      <p class="card-text">Lorem Ipsum is simply dummy text of the printing and typesetting industry.</p>
      <div class="text-center">
        <a href="#" class="btn btn-success">Link</a>
        </div>
      </div>
    </div>
  </div>
</div>
<br>
<div class="row"><!DOCTYPE html>
<html>

<head>
  <title>Recipe Website</title>
  <!-- Include Bootstrap CSS -->
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <!-- Include jQuery and Bootstrap JS -->
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
  <script>
    // Function to show recipe modal
    function showRecipe(recipeId) {
      $('#'+recipeId).modal('show');
    }
  </script>
</head>

<body>

```

```

<!-- Navigation Bar -->
<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
  <!-- Homepage link -->
  <a class="navbar-brand" href="#">Recipe Website</a>
  <!-- Navigation links -->
  <ul class="navbar-nav">
    <li class="nav-item active">
      <a class="nav-link" href="#">Recipes</a>
    </li>
  </ul>
</nav>

<!-- Recipe List -->
<div class="container mt-5">
  <h1 class="text-center">Recipe List</h1>
  <div class="row mt-5">
    <!-- Recipe 1 -->
    <div class="col-md-4">
      <div class="card">
        
        <div class="card-body">
          <h4 class="card-title">Recipe 1</h4>
          <p class="card-text">Description of Recipe 1</p>
        </div>
      </div>
    </div>
    <!-- Recipe 2 -->
    <div class="col-md-4">
      <div class="card">
        
        <div class="card-body">
          <h4 class="card-title">Recipe 2</h4>
          <p class="card-text">Description of Recipe 2</p>
        </div>
      </div>
    </div>
    <!-- Recipe 3 -->
    <div class="col-md-4">
      <div class="card">
        
        <div class="card-body">
          <h4 class="card-title">Recipe 3</h4>
          <p class="card-text">Description of Recipe 3</p>
        </div>
      </div>
    </div>
  </div>
</div>

<!-- Recipe Modals -->
<!-- Recipe 1 -->
<div class="modal fade" id="recipe1">
  <div class="modal-dialog modal-dialog-centered modal-lg">
    <div class="modal-content">

```

```
<div class="modal-header">
  <h4 class="modal-title">Recipe 1</h4>
  <button type="button" class="close" data-dismiss="modal">&times;</button>
</div>
<div class="modal-body">
  
  <p>Description of Recipe 1</p>
  <h5>Ingredients</h5>
  <ul>
    <li>Ingredient 1</li>
    <li>Ingredient 2</li>
    <li>Ingredient 3</li>
  </ul>
  <h5>Instructions</h5>
  <ol>
    <li>Step 1</li>
    <li>Step 2</li>
    <li>Step 3</li>
  </ol>
</div>
<div class="modal-footer">
  <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
</div>
</div>
</div>
```

```
<!-- Recipe 2 -->
<div class="modal fade" id="recipe2">
  <div class="modal-dialog modal-dialog-centered modal-lg">
    <div class="modal-content">
      <div class="modal-header">
        <h4 class="modal-title">Recipe 2</h4>
        <button type="button" class="close" data-dismiss="modal">&times;</button>
      </div>
      <div class="modal-body">
        
        <p>Description of Recipe 2</p>
        <h5>Ingredients</h5>
        <ul>
          <li>Ingredient 1</li>
          <li>Ingredient 2</li>
          <li>Ingredient 3</li>
        </ul>
        <h5>Instructions</h5>
        <ol>
          <li>Step 1</li>
          <li>Step 2</li>
          <li>Step 3</li>
        </ol>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
      </div>
    </div>
  </div>
```

```
</div>
</div>
</div>

<!-- Recipe 3 -->
<div class="modal fade" id="recipe3">
  <div class="modal-dialog modal-dialog-centered modal-lg">
    <div class="modal-content">
      <div class="modal-header">
        <h4 class="modal-title">Recipe 3</h4>
        <button type="button" class="close" data-dismiss="modal">&times;</button>
      </div>
      <div class="modal-body">
        
        <p>Description of Recipe 3</p>
        <h5>Ingredients</h5>
        <ul>
          <li>Ingredient 1</li>
          <li>Ingredient 2</li>
          <li>Ingredient 3</li>
        </ul>
        <h5>Instructions</h5>
        <ol>
          <li>Step 1</li>
          <li>Step 2</li>
          <li>Step 3</li>
        </ol>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-secondary" data-dismiss="modal">Close</button>
      </div>
    </div>
  </div>
</body>
</html>

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

  <head>
    <meta charset="UTF-8">
    <title>Registration Form</title>
    <style>
      label {
        display: block;
        margin-bottom: 5px;
      }

      input {
        margin-bottom: 10px;
        padding: 5px;
      }
    </style>
  </head>
  <body>
```

```

.error {
  border: 1px solid red;
}

.error-message {
  color: red;
  font-size: 12px;
  margin-top: 5px;
}

button {
  margin-top: 10px;
  padding: 5px 10px;
}

```

</style>

</head>

```

<body>
  <h1>Registration Form</h1>
  <form id="registration-form">
    <label for="name-input">Name:</label>
    <input type="text" id="name-input" name="name" required>
    <div class="error-message" id="name-error"></div>

    <label for="email-input">Email:</label>
    <input type="email" id="email-input" name="email" required>
    <div class="error-message" id="email-error"></div>

    <label for="phone-input">Phone Number:</label>
    <input type="tel" id="phone-input" name="phone" required>
    <div class="error-message" id="phone-error"></div>

    <label for="password-input">Password:</label>
    <input type="password" id="password-input" name="password" required>
    <div class="error-message" id="password-error"></div>

    <label for="confirm-password-input">Confirm Password:</label>
    <input type="password" id="confirm-password-input" name="confirm-password" required>
    <div class="error-message" id="confirm-password-error"></div>

    <button type="submit">Register</button>
  </form>
</body>
<script>
  // Input validation regex patterns
  // Input validation regex patterns
  const nameRegex = /^[A-Za-z\s]+$/;
  const emailRegex = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;
  const phoneRegex = /^\d{10}$/;
  const passwordRegex = /^(?=.*\d)(?=.*[!@#$%^&*])(?=.*[a-z])(?=.*[A-Z]).{8,}$/;

  // Input elements
  const nameInput = document.getElementById('name-input');
  const emailInput = document.getElementById('email-input');

```

```

const phoneInput = document.getElementById('phone-input');
const passwordInput = document.getElementById('password-input');
const confirmPasswordInput = document.getElementById('confirm-password-input');

// Error message elements
const nameError = document.getElementById('name-error');
const emailError = document.getElementById('email-error');
const phoneError = document.getElementById('phone-error');
const passwordError = document.getElementById('password-error');
const confirmPasswordError = document.getElementById('confirm-password-error');

// Event listeners for input validation
nameInput.addEventListener('input', function () {
  validateInput(nameInput, nameError, nameRegex, 'Name should contain only letters and spaces.');
});

emailInput.addEventListener('input', function () {
  validateInput(emailInput, emailError, emailRegex, 'Invalid email address.');
});

phoneInput.addEventListener('input', function () {
  validateInput(phoneInput, phoneError, phoneRegex, 'Phone number should be 10 digits.');
});

passwordInput.addEventListener('input', function () {
  validateInput(passwordInput, passwordError, passwordRegex, 'Password should contain at least 8 characters, including numbers and symbols.');
  validateConfirmPassword(confirmPasswordInput, passwordInput, confirmPasswordError, 'Passwords do not match.');
});

confirmPasswordInput.addEventListener('input', function () {
  validateConfirmPassword(confirmPasswordInput, passwordInput, confirmPasswordError, 'Passwords do not match.');
});

// Input validation function
function validateInput(input, error, regex, message) {
  if (!regex.test(input.value)) {
    error.innerHTML = message;
    input.classList.add('error');
  } else {
    error.innerHTML = "";
    input.classList.remove('error');
  }
}

// Confirm password validation function
function validateConfirmPassword(confirmInput, originalInput, error, message) {
  if (confirmInput.value !== originalInput.value) {
    error.innerHTML = message;
    confirmInput.classList.add('error');
  } else {
    error.innerHTML = "";
  }
}

```

```

        confirmPassword.classList.remove('error');
    }
}

// Form validation function
function validateForm() {
    let valid = true;

    validateInput(nameInput, nameError, nameRegex, 'Name should contain only letters and spaces.');
    validateInput(emailInput, emailError, emailRegex, 'Invalid email address.');
    validateInput(phoneInput, phoneError, phoneRegex, 'Phone number should be 10 digits.');
    validateInput(passwordInput, passwordError, passwordRegex, 'Password should contain at least 8 characters, including numbers and symbols.');
    validateConfirmPassword(confirmPasswordInput, passwordInput, confirmPasswordError, 'Passwords do not match.');

    if (document.querySelectorAll('.error').length > 0) {
        valid = false;
    }

    return valid;
}

</script>

</html>
<!DOCTYPE html>
<html lang="en">

<head>
    <title>Portfolio Website-Brad</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <!-- linking css file -->
    <link rel="stylesheet" href="style.css">
    <!-- bootstrap CDN -->
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet">
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>
    <!-- font awesome -->
    <script src="https://kit.fontawesome.com/31149d48b0.js" crossorigin="anonymous"></script>
</head>
<style>
/* display background color black on navbar scroll */
.navbarScroll.navbarDark {
    background-color: black;
}

/* hero background image */
.bgimage {
    height: 100vh;
    background: url('images/herolImage.jpeg');
    background-size: cover;
    position: relative;
}

```

```
/* text css above hero image*/
.hero_title {
  font-size: 4.5rem;
}

.hero_desc {
  font-size: 2rem;
}

.hero-text {
  text-align: center;
  position: absolute;
  top: 50%;
  left: 50%;
  transform: translate(-50%, -50%);
  color: white;
}

/* spacing on all sections */
/* #about, #services, #portfolio, #contact {
  margin-top: 4rem;
  padding-top: 4rem;
} */
#contact {
  padding-bottom: 4rem;
}

/* about section image css */
.imageAboutPage {
  width: 100%;
}

/* services section css */
.servicesText.card {
  height: 280px;
  cursor: pointer;
}

.servicesIcon {
  font-size: 36px;
  text-align: center;
  width: 100%;
}

.card-title {
  text-align: center;
}

.card:hover .servicesIcon {
  color: #008000;
}

.servicesText:hover {
```

```
border: 1px solid #008000;
}

/* social media icons styling */
.social-icons {
  font-size: 36px;
  cursor: pointer;
}

.fa-facebook:hover,
.fa-instagram:hover,
.fa-twitter:hover,
.fa-linkedin:hover,
.fa-twitch:hover {
  color: #008000;
}

.fab {
  color: #000000;
}

/* footer styling */
#footer {
  background-color: #808080;
  text-align: center;
}

```

```
<body>
  <!-- navbar -->
  <nav class="navbar navbar-expand-lg fixed-top navbar-dark navbarScroll">
    <div class="container">
      <a class="navbar-brand" href="#">Brad</a>
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarSupportedContent">
        <ul class="navbar-nav ms-auto">
          <li class="nav-item active">
            <a class="nav-link" href="#home">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#about">About</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#services">Services</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#portfolio">Portfolio</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="#contact">Contact</a>
          </li>
        </ul>
      </div>
    </div>
  </nav>

```

```
</li>
</ul>

</div>
</div>
</nav>
<!-- main banner -->
<section class="bgimage" id="home">
<div class="container-fluid">
<div class="row">
<div class="col-lg-12 col-md-12 col-sm-12 col-xs-12 hero-text">
<h2 class="hero_title">Hi, it's me Brad</h2>
<p class="hero_desc">I am a professional freelancer in New York City</p>
</div>
</div>
</div>
</section>

<!-- about section-->
<section id="about">
<div class="container mt-4 pt-4">
<h1 class="text-center">About Me</h1>
<div class="row mt-4">
<div class="col-lg-4">

</div>

<div class="col-lg-8">
<p> Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged</p>
</div>
</div>
<div class="row mt-3">
<div class="col-md-6">
<ul>
<li>Name: David Parker</li>
<li>Age: 28</li>
<li>Occupation: Web Developer</li>
</ul>
</div>
<div class="col-md-6">
<ul>
<li>Name: David Parker</li>
<li>Age: 28</li>
<li>Occupation: Web Developer</li>
</ul>
</div>
</div>
<div class="row mt-3">
```

```
<p> Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.</p>
</div>
</div>
</div>
</div>
</section>
```

```
<!-- services section-->
<section id="services">
<div class="container">
<h1 class="text-center">Services</h1>
<div class="row">
<div class="col-lg-4 mt-4">
<div class="card servicesText">
<div class="card-body">
<i class="fas servicesIcon fa-clock"></i>
<h4 class="card-title mt-3">Website Development</h4>
<p class="card-text mt-3">Some quick example text to build on the card title and make up the bulk of the card's content.
Some quick example text to build on the card title and make up the bulk of the card's content.
</p>
</div>
</div>
</div>
<div class="col-lg-4 mt-4">
<div class="card servicesText">
<div class="card-body">
<i class="fas servicesIcon fa-layer-group"></i>
<h4 class="card-title mt-3">Website Design</h4>
<p class="card-text mt-3">Some quick example text to build on the card title and make up the bulk of the card's content.
Some quick example text to build on the card title and make up the bulk of the card's content.
</p>
</div>
</div>
</div>
<div class="col-lg-4 mt-4">
<div class="card servicesText">
<div class="card-body">
<i class="far servicesIcon fa-check-circle"></i>
<h4 class="card-title mt-3">Website Deployment</h4>
<p class="card-text mt-3">Some quick example text to build on the card title and make up the bulk of the card's content.

```

```
Some quick example text to build on the card title and make up the bulk of the card's content.  
        </p>  
        </div>  
        </div>  
    </div>  
    </div>  
  
<div class="row">  
    <div class="col-lg-4 mt-4">  
        <div class="card servicesText">  
            <div class="card-body">  
                <i class='fas servicesIcon fa-search'></i>  
                <h4 class="card-title mt-3">SEO</h4>  
                <p class="card-text mt-3">Some quick example text to build on the card title and make up the bulk of  
the  
        card's content.  
        Some quick example text to build on the card title and make up the bulk of the card's content.  
            </p>  
            </div>  
        </div>  
    </div>  
  
<div class="col-lg-4 mt-4">  
    <div class="card servicesText">  
        <div class="card-body">  
            <i class='fas servicesIcon fa-shield-alt'></i>  
            <h4 class="card-title mt-3">DevOps</h4>  
            <p class="card-text mt-3">Some quick example text to build on the card title and make up the bulk of  
the  
        card's content.  
        Some quick example text to build on the card title and make up the bulk of the card's content.  
            </p>  
            </div>  
        </div>  
    </div>  
  
<div class="col-lg-4 mt-4">  
    <div class="card servicesText">  
        <div class="card-body">  
            <i class='fas servicesIcon fa-wrench'></i>  
            <h4 class="card-title mt-3">QA</h4>  
            <p class="card-text mt-3">Some quick example text to build on the card title and make up the bulk of  
the  
        card's content.  
        Some quick example text to build on the card title and make up the bulk of the card's content.  
            </p>  
            </div>  
        </div>  
    </div>  
    </div>  
    </div>  
    </div>  
</section>  
  
<!-- portfolio section-->
```

```
<section id="portfolio">
<div class="container mt-3">
<h1 class="text-center">Portfolio</h1>
<div class="row">
<div class="col-lg-4 mt-4">
<div class="card">

<div class="card-body">
<h4 class="card-title">YouTube Clone</h4>
<p class="card-text">Lorem Ipsum is simply dummy text of the printing and typesetting industry.</p>
<div class="text-center">
<a href="#" class="btn btn-success">Link</a>
</div>
</div>
</div>
</div>

<div class="col-lg-4 mt-4">
<div class="card portfolioContent">

<div class="card-body">
<h4 class="card-title">Quiz App</h4>
<p class="card-text">Lorem Ipsum is simply dummy text of the printing and typesetting industry.</p>
<div class="text-center">
<a href="#" class="btn btn-success">Link</a>
</div>
</div>
</div>
</div>

<div class="col-lg-4 mt-4">
<div class="card portfolioContent">

<div class="card-body">
<h4 class="card-title">Product Landing Page</h4>
<p class="card-text">Lorem Ipsum is simply dummy text of the printing and typesetting industry.</p>
<div class="text-center">
<a href="#" class="btn btn-success">Link</a>
</div>
</div>
</div>

<div class="col-lg-4 mt-4">
<div class="card portfolioContent">

<div class="card-body">
<h4 class="card-title">Messaging Service</h4>
<p class="card-text">Lorem Ipsum is simply dummy text of the printing and typesetting industry.</p>
<div class="text-center">
<a href="#" class="btn btn-success">Link</a>
</div>
</div>
</div>
</div>

<div class="col-lg-4 mt-4">
```

```

<div class="card portfolioContent">
  
  <div class="card-body">
    <h4 class="card-title">Twitter Clone</h4>
    <p class="card-text">Lorem Ipsum is simply dummy text of the printing and typesetting industry.</p>
    <div class="text-center">
      <a href="#" class="btn btn-success">Link</a>
    </div>
  </div>
</div>

<div class="col-lg-4 mt-4">
  <div class="card portfolioContent">
    
    <div class="card-body">
      <h4 class="card-title">Blog App</h4>
      <p class="card-text">Lorem Ipsum is simply dummy text of the printing and typesetting industry.</p>
      <div class="text-center">
        <a href="#" class="btn btn-success">Link</a>
      </div>
    </div>
  </div>
</div>
</div>
</section>

```

```

<!-- contact section-->
<section id="contact">
  <div class="container mt-3 contactContent">
    <h1 class="text-center">Contact Me</h1>

    <div class="row mt-4">
      <div class="col-lg-6">
        <!-- to edit google map goto https://www.embed-map.com type your location, generate html code and
        copy the html -->
        <div style="max-width:100%;overflow:hidden;color:red;width:500px;height:500px;">
          <div id="embedmap-canvas" style="height:100%; width:100%;max-width:100%;">
            <iframe style="height:100%;width:100%;border:0;" frameborder="0"
              src="https://www.google.com/maps/embed/v1/place?q=new+york&key=AIzaSyBFw0Qbyq9zTFTd-
              tUY6dZWtgaQzuU17R8">
              </iframe>
            </div>
          <a class="googlemaps-html" href="https://www.embed-map.com"
            id="get-data-forembedmap">https://www.embed-map.com</a>
          <style>
            #embedmap-canvas img {
              max-width: none !important;
              background: none !important;
              font-size: inherit;
              font-weight: inherit;
            }
          </style>
        </div>
      </div>
    </div>
  </div>

```

```

</div>

<div class="col-lg-6">
  <!-- form fields -->
  <form>
    <input type="text" class="form-control form-control-lg" placeholder="Name">
    <input type="email" class="form-control mt-3" placeholder="Email">
    <input type="text" class="form-control mt-3" placeholder="Subject">
    <div class="mb-3 mt-3">
      <textarea class="form-control" rows="5" id="comment" name="text" placeholder="Project
Details"></textarea>
    </div>
  </form>
  <button type="button" class="btn btn-success mt-3">Contact Me</button>
</div>

</div>
</div>
</section>
<!-- footer section-->
<footer id="footer">
  <div class="container-fluid">
    <!-- social media icons -->
    <div class="social-icons mt-4">
      <a href="https://www.facebook.com/" target="_blank"><i class="fab fa-facebook"></i></a>
      <a href="https://www.instagram.com/" target="_blank"><i class="fab fa-instagram"></i></a>
      <a href="https://www.twitter.com/" target="_blank"><i class="fab fa-twitter"></i></a>
      <a href="https://www.linkedin.com/" target="_blank"><i class="fab fa-linkedin"></i></a>
      <a href="https://www.twitch.tv/" target="_blank"><i class="fab fa-twitch"></i></a>
    </div>
  </div>
</div>
</footer>

<!-- load javascript after loading all html content -->
<script src="script/script.js"></script>
<script>
  // add class navbarDark on navbar scroll
  const header = document.querySelector('.navbar');
  console.log(header)
  window.onscroll = function () {
    const top = window.scrollY;
    if (top >= 100) {
      header.classList.add('navbarDark');
    }
    else {
      header.classList.remove('navbarDark');
    }
  }
  // collapse navbar after click on small devices
  const navLinks = document.querySelectorAll('.nav-item')
  const menuToggle = document.getElementById('navbarSupportedContent')

  navLinks.forEach((l) => {

```

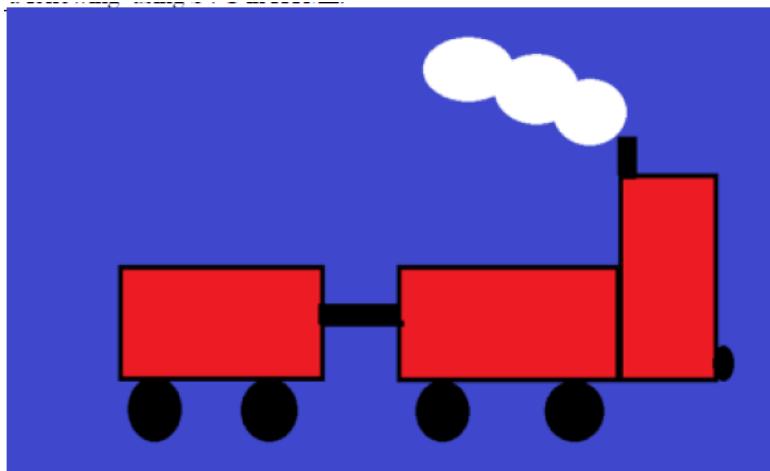
```

    l.addEventListener('click', () => { new bootstrap.Collapse(menuToggle).toggle() })
  })
</script>
</body>

</html>

```

26 DRAW svg



```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
<svg height="450px" width="900px" style="border: 2px solid black; background-color:rgb(43, 43, 203)" >
  <rect x="100" y="270" height="100px" width="190px" fill="red" stroke=rgb(0,0,0) stroke-width="3"/>
  <rect x="290" y="305" height="30px" width="90px" fill="black"/>
  <rect x="380" y="270" height="100px" width="190px" fill="red" stroke=rgb(0,0,0) stroke-width="3"/>
  <rect x="570" y="180" height="190px" width="90px" fill="red" stroke=rgb(0,0,0) stroke-width="3"/>
  <circle cx="140" cy="400" r="30" fill="black"/>
  <circle cx="247" cy="400" r="30" fill="black"/>
  <circle cx="425" cy="400" r="30" fill="black"/>
  <circle cx="530" cy="400" r="30" fill="black"/>
  <ellipse cx="670" cy="355" rx="10" ry="15" fill="black"/>
  <rect x="570" y="130" height="50px" width="20px" fill="black" />
  <circle cx="545" cy="100" r="40" fill="white"/>
  <circle cx="490" cy="85" r="40" fill="white"/>
  <ellipse cx="420" cy="75" rx="50" ry="40" fill="white"/>
</svg>
</body>
</html>

```

25 omitted

24 Design a webpage of Cafe Store having 4 sliding pictures for advertisement . Webpage is having fixed Navigation Bar having Logo(Image), Home, Café Menu, Trending Items, Best Seller, About us, Contact-us & Sign-In links ,which shows an additional icon,if width of device goes less than 992px and navigation items should disappear.Cafe menu link is having dropdown menu.Make a responsive webpage.Also put validations in Sign-up form for Username that doesn't includes any digits & special character, contact number having 10 digits only & E-mail Id that accept only valid e-mail ids

Take form validation from above questions

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

<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Cafe Store</title>

  <!-- Bootstrap CSS -->
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
    integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cYiJTQUOhcWr7x9JvoRxT2MZw1T"
    crossorigin="anonymous">

  <!-- Internal CSS -->
  <style>
    /* Add any custom CSS here */
  </style>
</head>

<body>

  <!-- Navigation Bar -->
  <nav class="navbar navbar-expand-lg navbar-light bg-light fixed-top">
    <a class="navbar-brand" href="#"></a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav"
      aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>

    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav mr-auto">
        <li class="nav-item active">
          <a class="nav-link" href="#">Home <span class="sr-only">(current)</span></a>
        </li>
        <li class="nav-item">
          <a class="nav-link dropdown-item" href="#">Cafe Menu</a>
          <div class="dropdown-menu" aria-labelledby="navbarDropdownMenuLink">
            <a class="dropdown-item" href="#">Breakfast</a>
            <a class="dropdown-item" href="#">Lunch</a>
          </div>
        </li>
      </ul>
    </div>
  </nav>
```

```

    <a class="dropdown-item" href="#">Dinner</a>
  </div>
</li>
<li class="nav-item">
  <a class="nav-link" href="#">Trending Items</a>
</li>
<li class="nav-item">
  <a class="nav-link" href="#">Best Sellers</a>
</li>
<li class="nav-item">
  <a class="nav-link" href="#">About Us</a>
</li>
<li class="nav-item">
  <a class="nav-link" href="#">Contact Us</a>
</li>
</ul>
<ul class="navbar-nav">
  <li class="nav-item">
    <a class="nav-link" href="#">Sign In</a>
  </li>
</ul>
</div>
</nav>

```

```

<!-- Carousel -->
<div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">
  <ol class="carousel-indicators">
    <li data-target="#carouselExampleIndicators" data-slide-to="0" class="active"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="3"></li>
  </ol>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
  <a class="carousel-control-prev" href="#carouselExampleIndicators" role="button" data-slide="prev">
    <span class="carousel-control-prev-icon" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="carousel-control-next" href="#carouselExampleIndicators" role="button" data-slide="next">
    <span class="carousel-control-next-icon" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>

```

```
</div>
```

```
<!-- Bootstrap JS -->
<script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"
integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
crossorigin="anonymous"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
integrity="sha384-UO2eT0CpHqdSIQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
crossorigin="anonymous"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
integrity="sha384-JjSmVgydOp3pXB1rRibZUAYolly6OrQ6VrjlEaFf/nJGzIxFDsf4x0xIM+B07jRM"
crossorigin="anonymous"></script>
```

```
</body>
```

```
</html>
```

23 Write a JavaScript to handle following mouse events:

- If mouse clicked on heading, content of heading changed to “Full Stack Development - 1” with italic effect, solid 5px black border & 50px font size.
- If mouse is over heading, heading should turn to green & if the button goes out of the heading it should turn orange.
- If button named red is clicked then heading should change to red color & button named blue is clicked then heading should change to blue color.
- If button named Upper is clicked then it changes heading to uppercase & Lower is clicked then it changes to lowercase.
- If button named Date & Time is clicked it show time & date information.
- If mouse left button pressed on browser it displayed alert message as “You have clicked Left Button”, if mouse centre button pressed on browser it displayed alert message as “You have clicked centre Button” & if mouse right button pressed on browser it displayed alert message as “You have clicked Right Button”.

```
<!DOCTYPE html>
<html>
<head>
    <title>Mouse Events</title>
    <style type="text/css">
        #heading {
            border: solid 5px black;
            font-size: 30px;
            padding: 20px;
            display: inline-block;
        }
        .green {
            color: green;
        }
        .orange {
```

```

        color: orange;
    }
</style>
</head>
<body>

<h1 id="heading">Full Stack Development</h1>

<button id="red">Red</button>
<button id="blue">Blue</button>
<button id="upper">Upper</button>
<button id="lower">Lower</button>
<button id="dateTime">Date & Time</button>

<script type="text/javascript">
    var heading = document.getElementById("heading");
    var redBtn = document.getElementById("red");
    var blueBtn = document.getElementById("blue");
    var upperBtn = document.getElementById("upper");
    var lowerBtn = document.getElementById("lower");
    var dateTimeBtn = document.getElementById("dateTime");

    heading.addEventListener("click", function() {
        heading.innerHTML = "<em>Full Stack Development - 1</em>";
        heading.style.border = "solid 5px black";
        heading.style.fontSize = "50px";
    });

    heading.addEventListener("mouseover", function() {
        heading.classList.add("green");
    });

    heading.addEventListener("mouseout", function(e) {
        if (e.relatedTarget !== redBtn && e.relatedTarget !== blueBtn && e.relatedTarget !== upperBtn && e.relatedTarget !== lowerBtn && e.relatedTarget !== dateTimeBtn) {
            heading.classList.remove("green");
            heading.classList.add("orange");
        }
    });

    redBtn.addEventListener("click", function() {
        heading.style.color = "red";
    });

    blueBtn.addEventListener("click", function() {

```

```

        heading.style.color = "blue";
    });

upperBtn.addEventListener("click", function() {
    heading.innerHTML = heading.innerHTML.toUpperCase();
});

lowerBtn.addEventListener("click", function() {
    heading.innerHTML = heading.innerHTML.toLowerCase();
});

dateTimeBtn.addEventListener("click", function() {
    var dateTime = new Date().toLocaleString();
    alert(dateTime);
});

document.addEventListener("mousedown", function(e) {
    if (e.button === 0) {
        alert("You have clicked Left Button");
    } else if (e.button === 1) {
        alert("You have clicked Centre Button");
    } else if (e.button === 2) {
        alert("You have clicked Right Button");
    }
});

```

}

`</script>`

`</body>`

`</html>`

22 Design a webpage for Learning Website that have multiple links for topics like Animation, Carousel, Collapse, Gradients – Linear, Radial, Conic etc. Once user click on particular link, example of that concept will be reflected as follow:

- For Animation, design one banner using any heading tag. That headings should move in counter-clockwise and complete its iteration then return back in clockwise on its starting position. Use blue text color. And effect should begin after 3 second of loading page.
- For carousel any 4 pictures move turn by turn.
- For collapse, design a page of E-newspaper having 3 articles by showing only titles initially. Script should enable reader to open a particular article by viewing and clicking its title and close it by clicking it again. If reader opens any other article, then previous article should disappear.
- For gradients, clicking on each gradient effect demonstrate particular effect on entire web page.

```
<!DOCTYPE html>
<html>
<head>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js"></script>
<script>
  // select the buttons
  const gradient1Btn = document.getElementById('gradient-1-btn');
  const gradient2Btn = document.getElementById('gradient-2-btn');
  const gradient3Btn = document.getElementById('gradient-3-btn');

  // add event listeners to buttons
  gradient1Btn.addEventListener('click', () => {
    // change background gradient to gradient 1
    document.body.style.background = 'linear-gradient(to bottom right, #ff6e7f, #bfe9ff)';
  });

  gradient2Btn.addEventListener('click', () => {
    // change background gradient to gradient 2
    document.body.style.background = 'radial-gradient(circle, #ffe985, #ff6e7f)';
  });

  gradient3Btn.addEventListener('click', () => {
    // change background gradient to gradient 3
    document.body.style.background = 'conic-gradient(from 180deg at 50% 50%, #ff6e7f, #bfe9ff, #ffe985, #ff6e7f)';
  });
</script>
<title>Learning Website</title>
<style>

/* button styles */
button {
  padding: 10px 20px;
  border: none;
  border-radius: 5px;
  margin: 10px;
  cursor: pointer;
  font-size: 18px;
  color: white;
}

/* gradient effect styles */
.gradient-1 {
  background: linear-gradient(to bottom right, #ff6e7f, #bfe9ff);
}
```

```

}

.gradient-2 {
  background: radial-gradient(circle, #ffe985, #ff6e7f);
}
.gradient-3 {
  background: conic-gradient(from 180deg at 50% 50%, #ff6e7f, #bfe9ff, #ffe985, #ff6e7f);
}

/* Styles for animation */
.heading {
  color: blue;
  position: relative;
  animation-name: rotate;
  animation-duration: 6s;
  animation-iteration-count: infinite;
  animation-direction: alternate;
  animation-delay: 3s;
}

@keyframes rotate {
  from {transform: rotate(0deg);}
  to {transform: rotate(360deg);}
}

</style>
</head>
<body>
  <h1>Learning Website</h1>
  <ul>
    <li><a href="#animation">Animation</a></li>
    <li><a href="#carousel">Carousel</a></li>
    <li><a href="#collapse">Collapse</a></li>
    <li><a href="#gradients">Gradients</a></li>
  </ul>

  <!-- Animation -->
  <h2 id="animation">Animation</h2>
  <h3 class="heading">This is a heading</h3>

  <!-- Carousel -->
  <h2 id="carousel">Carousel</h2>
  <div id="demo" class="carousel slide" data-bs-ride="carousel">
    <div class="carousel-indicators">

      <button data-bs-target="#demo" data-bs-slide-to="0" class="active bg-warning"></button>

      <button data-bs-target="#demo" data-bs-slide-to="1" class="bg-

```

```
warning"></button>
```

```
<button data-bs-target="#demo" data-bs-slide-to="2" class="bg-warning"></button>
```

```
<button data-bs-target="#demo" data-bs-slide-to="3" class="bg-warning"></button>
```

```
</div>
```

```
<div class="carousel-inner">
```

```
<div class="carousel-item active">
```

```
  
```

```
</div>
```

```
<div class="carousel-item">
```

```
  
```

```
</div>
```

```
<div class="carousel-item">
```

```
  
```

```
</div>
```

```
<div class="carousel-item">
```

```
  
```

```
</div>
```

```
<button class="carousel-control-prev bg-success" data-bs-target="#demo"
```

```
  data-bs-slide="prev">
```

```
    <span class="carousel-control-prev-icon"></span>
```

```
  </button>
```

```
  <button class="carousel-control-next bg-success" data-bs-target="#demo" data-bs-slide="next">
```

```
    <span class="carousel-control-next-icon"></span>
```

```
  </button>
```

```
  </div>
```

```
<div id="collapse">
```

```
  <h3>collapse</h3>
```

```
  <div class="accordion" id="accordionExample">
```

```
    <div class="accordion-item">
```

```
      <h2 class="accordion-header" id="headingOne">
```

```
<button class="accordion-button" type="button" data-bs-toggle="collapse" data-bs-target="#collapseOne" aria-expanded="true" aria-controls="collapseOne">
    Accordion Item #1
</button>
</h2>
<div id="collapseOne" class="accordion-collapse collapse show" aria-labelledby="headingOne" data-bs-parent="#accordionExample">
    <div class="accordion-body">
        <strong>This is the first item's accordion body.</strong> It is shown by default, until
        the collapse plugin adds the appropriate classes that we use to style each element. These
        classes control the overall appearance, as well as the showing and hiding via CSS transitions.
        You can modify any of this with custom CSS or overriding our default variables. It's also worth
        noting that just about any HTML can go within the <code>.accordion-body</code>, though the
        transition does limit overflow.
    </div>
    </div>
</div>
<div class="accordion-item">
    <h2 class="accordion-header" id="headingTwo">
        <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse"
        data-bs-target="#collapseTwo" aria-expanded="false" aria-controls="collapseTwo">
            Accordion Item #2
        </button>
    </h2>
    <div id="collapseTwo" class="accordion-collapse collapse" aria-labelledby="headingTwo" data-bs-parent="#accordionExample">
        <div class="accordion-body">
            <strong>This is the second item's accordion body.</strong> It is hidden by default,
            until the collapse plugin adds the appropriate classes that we use to style each element. These
            classes control the overall appearance, as well as the showing and hiding via CSS transitions.
            You can modify any of this with custom CSS or overriding our default variables. It's also worth
            noting that just about any HTML can go within the <code>.accordion-body</code>, though the
            transition does limit overflow.
        </div>
        </div>
    </div>
    <div class="accordion-item">
        <h2 class="accordion-header" id="headingThree">
            <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse"
            data-bs-target="#collapseThree" aria-expanded="false" aria-controls="collapseThree">
                Accordion Item #3
            </button>
        </h2>
        <div id="collapseThree" class="accordion-collapse collapse" aria-labelledby="headingThree" data-bs-parent="#accordionExample">
            <div class="accordion-body">
```

This is the third item's accordion body. It is hidden by default, until the collapse plugin adds the appropriate classes that we use to style each element. These classes control the overall appearance, as well as the showing and hiding via CSS transitions. You can modify any of this with custom CSS or overriding our default variables. It's also worth noting that just about any HTML can go within the <code>.accordion-body</code>, though the transition does limit overflow.

```
</div>
</div>
</div>
</div>
</div>
<div id="Gradients">
  <h1>Gradients</h1>
  <p>Click on the buttons below to see different gradient effects:</p>
  <div>
    <button id="gradient-1-btn">Gradient 1</button>
    <button id="gradient-2-btn">Gradient 2</button>
    <button id="gradient-3-btn">Gradient 3</button>
  </div>
</div>
</body>
</html>
```

21 same as 26 café store

**20 Write down HTML/CSS code that will change both the background-color and the position of the element which is in shape of ball.when the animation is 25% complete it will gradually change the background-color from "red" to "yellow" , when 50% complete it will gradually change the background-color from "yellow" to "green" .,when 75% complete it will gradually change the background-color from "green" to "blue". and again when the animation is 100% complete it turns back to red color also has a 2 seconds delay before starting the animation.
ball should change its position in ZIGZAG pattern**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <style>
    .ball {
      width: 50px;
      height: 50px;
```

```
border-radius: 50%;  
background-color: red;  
position: absolute;  
top: 0;  
left: 0;  
animation: zigzag 5s linear 2s infinite;  
}  
  
@keyframes zigzag {  
0% {  
top: 0;  
left: 0;  
}  
25% {  
top: 50px;  
left: 100px;  
background-color: yellow;  
}  
50% {  
top: 100px;  
left: 0;  
background-color: green;  
}  
75% {  
top: 150px;  
left: 100px;  
background-color: blue;  
}  
100% {  
top: 0;  
left: 0;  
background-color: red;  
}  
}
```

```
</style>  
</head>  
<body>  
 <div class="ball"></div>  
  
</body>  
</html>
```

19 write a HTML and CSS code to perform following .

1. take three sections using <div> .first section has fill with rainbow effect from left to right. Display one image with border ,half transparent and rounded corners in Second section

In third section play a YouTube video looping forever

2 All these three div should horizontally adjacent to each other. Make page responsive

3 Initially first div should have red , second div should have green and third div should have blue background color. when page turns to portrait mode first div should have blue ,second div should have red and third div should have green background color

```
<!DOCTYPE html>
<html>

<head>
<title>My Rainbow Page</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" type="text/css" href="ipe.css">
<style>

/* Rainbow section */
#rainbow {
    height: 100vh;
    background: linear-gradient(to right, violet, indigo, blue, green, yellow, orange, red);
}

/* Image section */
#image {
    height: 50vh;
    display: flex;
    opacity: 0.5;
    align-items: center;
    justify-content: center;
}

#image img {
    border: 5px solid rgba(0, 0, 0, 0.5);
    border-radius: 50%;
    max-width: 100%;
    height: auto;
}

/* Video section */
#video {
    height: 50vh;
}
```

```
#video iframe {  
    width: 100%;  
    height: 100%;  
}  
  
/* Responsive design */  
@media only screen and (orientation: portrait) {  
    #rainbow {  
        background: blue;  
    }  
  
    #image {  
        background: red;  
    }  
  
    #video {  
        background: green;  
    }  
}  
  
@media only screen and (max-width: 768px) {  
  
    /* For smaller screens */  
    #rainbow {  
        height: 50vh;  
    }  
  
    #image,  
    #video {  
        height: 50vh;  
    }  
}  
</style>  
</head>  
  
<body>  
    <!--No:19-->  
    <div id="rainbow"></div>  
    <div id="image">  
          
    </div>  
    <div id="video" >
```

```

<iframe style="width: 70vw;" frameborder="0" src="https://www.youtube.com/embed/Q-qCB_OqKTU?autoplay=1"
    allowfullscreen></iframe>
</div>
</body>

</html>

```

17 Create a simple multiplication table asking the user the number of rows and columns he wants

```

<!DOCTYPE html>
<html>
<head>
<title>Multiplication Table</title>
<style>
    table {
        border-collapse: collapse;
    }

    td, th {
        border: 1px solid black;
        padding: 5px;
    }
</style>
<script>
    function generateTable() {
        var num_rows = parseInt(document.getElementById("num_rows").value);
        var num_cols = parseInt(document.getElementById("num_cols").value);
        var table = "<table>";

        for (var i = 1; i <= num_rows; i++) {
            table += "<tr>";

            for (var j = 1; j <= num_cols; j++) {
                table += "<td>" + (i * j) + "</td>";
            }

            table += "</tr>";
        }

        table += "</table>";
        document.getElementById("table_div").innerHTML = table;
    }

```

```

</script>
</head>
<body>
  <label for="num_rows">Number of rows:</label>
  <input type="number" id="num_rows">

  <label for="num_cols">Number of columns:</label>
  <input type="number" id="num_cols">

  <button onclick="generateTable()">Generate Table</button>

  <div id="table_div"></div>
</body>
</html>

```

15 Create an interactive product showcase that includes a carousel and a scrollspy. Your showcase should meet the following requirements:

- The showcase should have a product section with images, descriptions, and a carousel to display multiple images.**
- The showcase should have a navigation section with a scrollspy to highlight the current section on the navigation bar.**
- The showcase shoud have card section having four cards for testimonials of users using accordian.**

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link rel="stylesheet"
    href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
    integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm"
    crossorigin="anonymous">
  <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtIkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
    crossorigin="anonymous"></script>
  <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
    integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
    crossorigin="anonymous"></script>

```

```
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
crossorigin="anonymous"></script>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-shzK+g9eXW95F9Xoofn+P8OoQ4qB7dZ6R8tE1Z2QbgeUd8A9WZq4f4QXp8ZJLW"
MrcW6ZMFYIzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtlaxVXM"
crossorigin="anonymous"></script>
<style>
    .carousel-item {
        height: 500px;
    }

.carousel-caption {
    background-color: rgba(0,0,0,0.5);
    padding: 10px;
    color: white;
    bottom: 0;
}

#navbar-example2 {
    position: sticky;
    top: 0;
}

.accordion-item {
    margin-bottom: 10px;
}

.accordion-button {
    background-color: #f8f9fa;
    border-color: #f8f9fa;
    color: #212529;
    width: 100%;
    text-align: left;
    font-weight: bold;
}

.accordion-button:focus {
    box-shadow: none;
}
```

```
.accordion-button:not(.collapsed) {  
background-color: #f8f9fa;  
border-color: #f8f9fa;  
color: #212529;  
}  
  
.accordion-body {  
background-color: #f8f9fa;  
color: #212529;  
}  
  
 </style>  
</head>  
<body>  
<nav id="navbar-example2" class="navbar navbar-light bg-light px-3 fixed-top">  
 <nav class="nav nav-pills flex-column">  
   <h2>Navigation Section</h2>  
   <a class="nav-link active" href="#product-section">Product Section</a>  
   <a class="nav-link" href="#testimonials-section">Testimonials Section</a>  
 </nav>  
 </nav>  
<div class="container">  
 <div class="row">  
   <div class="col-md-8">  
     <h2 class="display-1">Product Section</h2>  
     <div id="carouselExampleControls" class="carousel slide" data-bs-ride="carousel">  
       <div class="carousel-inner">  
         <div class="carousel-item active">  
             
           <div class="carousel-caption d-none d-md-block">  
             <h5>Image 1 Caption</h5>  
             <p>Description of Image 1</p>  
           </div>  
         </div>  
         <div class="carousel-item">  
             
           <div class="carousel-caption d-none d-md-block">  
             <h5>Image 2 Caption</h5>  
             <p>Description of Image 2</p>  
           </div>  
         </div>  
         <div class="carousel-item">  
             
           <div class="carousel-caption d-none d-md-block">  
             <h5>Image 3 Caption</h5>  
             <p>Description of Image 3</p>  
           </div>  
         </div>  
       </div>  
     </div>  
   </div>  
</div>
```

```
</div>
</div>
</div>
<button class="carousel-control-prev" type="button" data-bs-target="#carouselExampleControls" data-bs-slide="prev">
  <span class="carousel-control-prev-icon" aria-hidden="true"></span>
  <span class="visually-hidden">Previous</span>
</button>
<button class="carousel-control-next" type="button" data-bs-target="#carouselExampleControls" data-bs-slide="next">
  <span class="carousel-control-next-icon" aria-hidden="true"></span>
  <span class="visually-hidden">Next</span>
</button>
</div>
</div>

</div>
<div id="product-section" class="my-5" style="padding-top: 20vh;">
  <h2>Product Section</h2>
  <p>Description of Product Section</p>
  <pre>

</pre>
</div>
<div id="testimonials-section" class="my-5">
  <h2>Testimonials Section</h2>
  <div class="accordion" id="accordionExample">
    <div class="accordion-item">
      <h2 class="accordion-header" id="headingOne">
        <button class="accordion-button" type="button" data-bs-toggle="collapse" data-bs-target="#collapseOne" aria-expanded="true" aria-controls="collapseOne">
```

```
Testimonial 1
</button>
</h2>
<div id="collapseOne" class="accordion-collapse collapse show" aria-
labelledby="headingOne" data-bs-parent="#accordionExample">
  <div class="accordion-body">
    <strong>John Doe:</strong> "I love this product! It has made my life so much easier."
  </div>
  </div>
  <div class="accordion-item">
    <h2 class="accordion-header" id="headingTwo">
      <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse"
data-bs-target="#collapseTwo" aria-expanded="false" aria-controls="collapseTwo">
        Testimonial 2
      </button>
    </h2>
    <div id="collapseTwo" class="accordion-collapse collapse" aria-
labelledby="headingTwo" data-bs-parent="#accordionExample">
      <div class="accordion-body">
        <strong>Jane Smith:</strong> "I was skeptical at first, but this product exceeded my
expectations."
      </div>
      </div>
      </div>
      <div class="accordion-item">
        <h2 class="accordion-header" id="headingThree">
          <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse"
data-bs-target="#collapseThree" aria-expanded="false" aria-controls="collapseThree">
            Testimonial 3
          </button>
        </h2>
        <div id="collapseThree" class="accordion-collapse collapse" aria-
labelledby="headingThree" data-bs-parent="#accordionExample">
          <div class="accordion-body">
            <strong>Bob Johnson:</strong> "I've been using this product for months and it's still
going strong. Highly recommend!"
          </div>
          </div>
          </div>
          <div class="accordion-item">
            <h2 class="accordion-header" id="headingFour">
              <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse"
data-bs-target="#collapseFour" aria-expanded="false" aria-controls="collapseFour">
                Testimonial 4
              </button>
            </h2>
```

```
<div id="collapseFour" class="accordion-collapse collapse" aria-labelledby="headingFour" data-bs-parent="#accordionExample">
    <div class="accordion-body">
        <strong>Sara Kim:</strong> "I have recommended this product to all my friends and family. It's a game changer!"
    </div>
</div>
</div>
</div>
</div>
</div>
<pre>
```



```
</pre>
</div>
</div>
</body>
</html>
```

14 Create a simple form validation application for competitive exam that ensures the student enters valid data in a form. Your application should meet the following requirements:

- 1. The application should have a form with input fields for name, email, phone number, and a message.**
- 2. The application should validate each input field when the user submits the form.**
- 3. The application should display an error message if any input field is empty or invalid.**
- 4. Username length must be of 8 characters.**
- 5. The application should use regular expressions to validate the email and phone number fields.**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet"
    href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
    integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwGgFAW/dAiS6JXm"
    crossorigin="anonymous">
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtlkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
    crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
    integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
    crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
    integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQxSfFWpi1MquVdAyUar5+76PVCmYI"
    crossorigin="anonymous"></script>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
    rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwpSpd3yD65VohhpooCOmLASjC"
    crossorigin="anonymous">
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-MrcW6ZMFYlzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtlaxVXM"
    crossorigin="anonymous"></script>
</head>
<body>
    <h1>APPLICATION FORM FOR COMPETITIVE EXAM</h1>
    <br>
    <div class="container">
        <form action="" class="needs-validation">
            <div class="mt-3">
                <label for="uname" class="form-label">USERNAME:</label>
                <input type="text" name="" class="form-control" placeholder="Enter name"
maxlength="8" id="uname" required>
                <div class="valid-feedback"> Valid</div>
                <div class="invalid-feedback">Please fill out this field</div>
                <br>
                <label for="email" class="form-label">EMAIL:</label>
```

```

<input type="email" class="form-control" pattern="^[\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$" oninvalid="setCustomValidity('Enter correct email!')" placeholder="Enter email" name="" id="email" required>
    <div class="valid-feedback"> Valid</div>
    <div class="invalid-feedback">Please fill out this field</div>
    <br>
    <label for="pwd" class="form-label">PHONE NUMBER:</label>
    <input type="text" class="form-control" pattern="^[\+]?[([)]?[\d]{3}[]]?[-\s\.]?[\d]{3}[-\s\.]?[\d]{4,6}$" oninvalid="setCustomValidity('Enter correct phone number!')" placeholder="Enter phone number" name="" id="pwd" required>
        <div class="valid-feedback"> Valid</div>
        <div class="invalid-feedback">Please fill out this field</div>
        <br>
        <label for="msg" class="form-label">MESSAGE:</label>
        <textarea name="" id="msg" placeholder="Enter message" class="form-control" cols="30" rows="4"></textarea>
        <button type="submit" class="btn btn-primary">submit</button>
    </div>
</form>
</div>
</html>

```

13 Create a simple static website for a local business, such as a restaurant or boutique. Your website should meet the following requirements:

1. The website should have a home page that includes the business name, logo, tagline, and a navigation menu.
2. The website should have a menu page that displays the business's menu, including the item names, descriptions, and prices.
3. The website should have an about page that provides information about the business, such as its history, mission, and team members.
4. The website should have a contact page that includes a contact form, business hours, phone number, email address, and physical address.

HOME PAGE

```

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

```

```
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwGgFAW/dAiS6JXm"
crossorigin="anonymous">
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-
KJ3o2DKtlkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQxSfFWpi1MquVdAyjUar5+76PVCmYI"
crossorigin="anonymous"></script>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
MrcW6ZMFYlzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtlaxVXM"
crossorigin="anonymous"></script>
</head>
<body>
<nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">
  <a class="navbar-brand" href="#">  Small Business</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNav">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav ml-auto">
      <li class="nav-item">
        <a href="home.html" class="nav-link">HOME</a>
      </li>
      <li class="nav-item">
        <a href="menu.html" class="nav-link">MENU</a>
      </li>
      <li class="nav-item">
        <a href="about.html" class="nav-link">ABOUT</a>
      </li>
    </ul>
  </div>
</nav>
```

```

</li>
<li class="nav-item">
    <a href="contactus.html" class="nav-link">CONTACT US </a>
</li>
</ul>
</div>
</nav>

<h1 class="display-1" style="padding-top: 20vh;">BUSINESS NAME </h1>
<h6 class="display-6">TAGLINE</h6>
</body>
</html>

```

MENU PAGE

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet"
    href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
    integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwGgFAW/dAiS6JXm"
    crossorigin="anonymous">
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtkYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
    crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
    integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
    crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
    integrity="sha384-JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQxSfFWpi1MquVdAyjUar5+76PVCmYI"
    crossorigin="anonymous"></script>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
    rel="stylesheet" integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztCQTwFspd3yD65VohhpuuCOMLASjC"
    crossorigin="anonymous">
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
    integrity="sha384-shbQfZs7LWVxjZDIyv3QWtGZ9PjYVbZD4uHrW1szCqKv7J8vzbT6d48D8l9Wq
    crossorigin="anonymous"></script>

```

```
MrcW6ZMFYIzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtlaxVXM"
crossorigin="anonymous"></script>
</head>
<body>
<nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">
  <a class="navbar-brand" href="#">  Small Business</a>
    <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav">
      <span class="navbar-toggler-icon"></span>
    </button>
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav ml-auto">
      <li class="nav-item">
        <a href="home.html" class="nav-link">HOME</a>
      </li>
      <li class="nav-item">
        <a href="menu.html" class="nav-link">MENU</a>
      </li>
      <li class="nav-item">
        <a href="about.html" class="nav-link">ABOUT</a>
      </li>
      <li class="nav-item">
        <a href="contactus.html" class="nav-link">CONTACT US </a>
      </li>
    </ul>
  </div>
</nav>

<h2 style="padding-top: 20vh;">Menu</h2>

<section>
  <h3>Appetizers</h3>
  <ul>
    <li>
      <div class="menu-item">
        
        <div>
          <h4>Appetizer 1</h4>
          <p>Description of appetizer 1.</p>
          <p class="price">$10</p>
        </div>
      </div>
    </li>
    <li>

```

```
<div class="menu-item">
    
    <div>
        <h4>Appetizer 2</h4>
        <p>Description of appetizer 2.</p>
        <p class="price">$8</p>
    </div>
</div>
</li>
</ul>
</section>

<section>
    <h3>Entrees</h3>
    <ul>
        <li>
            <div class="menu-item">
                
                <div>
                    <h4>Entree 1</h4>
                    <p>Description of entree 1.</p>
                    <p class="price">$20</p>
                </div>
            </div>
        </li>
        <li>
            <div class="menu-item">
                
                <div>
                    <h4>Entree 2</h4>
                    <p>Description of entree 2.</p>
                    <p class="price">$18</p>
                </div>
            </div>
        </li>
    </ul>
</section>

<section>
    <h3>Desserts</h3>
    <ul>
        <li>
            <div class="menu-item">
                
                <div>
                    <h4>Dessert 1</h4>
```

```

        <p>Description of dessert 1.</p>
        <p class="price">$7</p>
    </div>
</div>
</li>
<li>
    <div class="menu-item">
        
        <div>
            <h4>Dessert 2</h4>
            <p>Description of dessert 2.</p>
            <p class="price">$8</p>
        </div>
    </div>
</div>
</li>
</ul>
</section>

```

```

</body>
</html>

```

ABOUT PAGE

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link rel="stylesheet"
        href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
        integrity="sha384-Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwGgFAW/dAiS6JXm"
        crossorigin="anonymous">
    <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-KJ3o2DKtkvYIK3UENzmM7KCkRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KkN"
        crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
        integrity="sha384-ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
        crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
        integrity="sha384-shhggvHfB9eYnS08G1Q46oERcE75+qitI3J4Tlmu4cZL8zq7f+pq81ygtKdpc"
        crossorigin="anonymous"></script>

```

```

JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
crossorigin="anonymous"></script>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohpuuCOMLASjC"
crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
MrcW6ZMFYlzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtlaxVXM"
crossorigin="anonymous"></script>
</head>
<body>
<nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">
  <a class="navbar-brand" href="#"> Small Business</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNav">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav ml-auto">
      <li class="nav-item">
        <a href="home.html" class="nav-link">HOME</a>
      </li>
      <li class="nav-item">
        <a href="menu.html" class="nav-link">MENU</a>
      </li>
      <li class="nav-item">
        <a href="about.html" class="nav-link">ABOUT</a>
      </li>
      <li class="nav-item">
        <a href="contactus.html" class="nav-link">CONTACT US </a>
      </li>
    </ul>
  </div>
</nav>

<h1 class="display-1" style="padding-top: 20vh;">ABOUT US</h1>
<p>-About Buisness <br> -Mission <br> -History <br> -Team Members </p>
</body>
</html>

```

CONTACT PAGE

```

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

```

```
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Document</title>
<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJISAwGgFAW/dAiS6JXm"
crossorigin="anonymous">
<script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-
KJ3o2DKtkvYIK3UENzmM7KCKRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5KKN"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.12.9/dist/umd/popper.min.js"
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/js/bootstrap.min.js"
integrity="sha384-
JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
crossorigin="anonymous"></script>
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTxFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
MrcW6ZMFYIzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtlaxVXM"
crossorigin="anonymous"></script>
</head>
<body>
<nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">
  <a class="navbar-brand" href="#"> Small Business</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNav">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="navbarNav">
    <ul class="navbar-nav ml-auto">
      <li class="nav-item">
        <a href="home.html" class="nav-link">HOME</a>
      </li>
      <li class="nav-item">
        <a href="menu.html" class="nav-link">MENU</a>
      </li>
    </ul>
  </div>
</nav>
```

```

<li class="nav-item">
    <a href="about.html" class="nav-link">ABOUT</a>
</li>
<li class="nav-item">
    <a href="contactus.html" class="nav-link">CONTACT US </a>
</li>
</ul>
</div>
</nav>

<div class="contact-info" style="padding-top: 20vh;">
    <h3 class="display-1">Contact Us</h3>
    <p>123 ABCD st.</p>
    <p>BOPAL, 12345</p>
    <p>Phone: 9898989898</p>
    <p>Email: info@localrestaurant.com</p>
    <p>Hours:</p>
    <p>Mon - Fri: 11am - 9pm</p>
    <p>Sat - Sun: 10am - 10pm</p>
</div>

<form action="contactus.html" method="POST">
    <h3>Send Us a Message</h3>
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required>
    <br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required>
    <br>
    <label for="message">Message:</label>
    <textarea id="message" name="message" required></textarea>
    <br>
    <input type="submit" value="Send">
</form>
</body>
</html>

```

12 Create a responsive website for a small business using HTML, CSS, and Bootstrap. Your website should meet the following requirements:

- 1. The website should have a fixed navigation bar at the top of the page that stays visible when the user scrolls.**
- 2. The website should have a hero section at the top of the page that includes a background image, a heading**

- 3. The website should have a section that lists the services offered by the business, with an image and a brief description for each service.**
- 4. The website should have a section that displays customer testimonials, with a photo and a quote for each testimonial.**
- 5. The website should be fully responsive, with a layout that adjusts to different screen sizes.**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Small Business Website</title>
  <!-- Bootstrap CSS -->
  <link rel="stylesheet"
    href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css">
  <!-- Custom CSS -->
<style>
  /* Navigation bar styles */
.navbar {
  position: fixed;
  top: 0;
  width: 100%;
}
/* Hero section styles */
.hero-section {
  height: 80vh;
  background-image: url('utilities.png');
  background-size: cover;
  background-position: center;
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
  color: white;
  text-align: center;
}
/* Services section styles */
.services-section {
  padding: 50px;
  display: flex;
  flex-wrap: wrap;
  justify-content: center;
}
```

```
.service-card {  
    margin: 20px;  
    width: 300px;  
    border: 1px solid #ddd;  
    border-radius: 5px;  
    padding: 20px;  
    text-align: center;  
}  
.service-card img {  
    width: 100%;  
    margin-bottom: 20px;  
}  
/* Testimonials section styles */  
.testimonials-section {  
    padding: 50px;  
    display: flex;  
    flex-wrap: wrap;  
    justify-content: center;  
}  
.testimonial-card {  
    margin: 20px;  
    width: 300px;  
    border: 1px solid #ddd;  
    border-radius: 5px;  
    padding: 20px;  
    text-align: center;  
}  
.testimonial-card img {  
    width: 50%;  
    border-radius: 50%;  
    margin-bottom: 20px;  
}  
</style>  
</head>  
<body>  
    <!-- Navigation bar -->  
    <nav class="navbar navbar-expand-lg navbar-light bg-light">  
        <a class="navbar-brand" href="#">Small Business</a>  
        <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">  
            <span class="navbar-toggler-icon"></span>  
        </button>  
        <div class="collapse navbar-collapse" id="navbarNav">  
            <ul class="navbar-nav ml-auto">  
                <li class="nav-item">
```

```
<a class="nav-link" href="#">Home</a>
</li>
<li class="nav-item">
  <a class="nav-link" href="#services-section">Services</a>
</li>
<li class="nav-item">
  <a class="nav-link" href="#testimonials-section">Testimonials</a>
</li>
</ul>
</div>
</nav>

<!-- Hero section --&gt;
&lt;section class="hero-section"&gt;
  &lt;h1&gt;Welcome to Small Business&lt;/h1&gt;
&lt;/section&gt;

<!-- Services section --&gt;
&lt;section id="services-section" class="services-section"&gt;
  &lt;div class="service-card"&gt;
    &lt;img src="path/to/service1.jpg" alt="Service 1"&gt;
    &lt;h3&gt;Service 1&lt;/h3&gt;
    &lt;p&gt;Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec fringilla tortor a justo hend
    &lt;/div&gt;
  &lt;div class="service-card"&gt;
    &lt;img src="path/to/service2.jpg" alt="Service 2"&gt;
    &lt;h3&gt;Service 2&lt;/h3&gt;
    &lt;p&gt;Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec fringilla tortor a justo
    hendrerit.&lt;/p&gt;
    &lt;/div&gt;
  &lt;div class="service-card"&gt;
    &lt;img src="path/to/service3.jpg" alt="Service 3"&gt;
    &lt;h3&gt;Service 3&lt;/h3&gt;
    &lt;p&gt;Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec fringilla tortor a justo
    hendrerit.&lt;/p&gt;
    &lt;/div&gt;
  &lt;/div&gt;
&lt;/section&gt;

<!-- Testimonials section --&gt;
&lt;section id="testimonials-section" class="testimonials-section"&gt;
  &lt;div class="testimonial-card"&gt;
    &lt;img src="path/to/testimonial1.jpg" alt="Testimonial 1"&gt;
    &lt;blockquote&gt;
      &lt;p&gt;"I'm so happy with the service I received from Small Business. They were professional
      and efficient, and got the job done right the first time."&lt;/p&gt;
    &lt;/blockquote&gt;
  &lt;/div&gt;
&lt;/section&gt;</pre>
```

```

</blockquote>
<cite>- Jane Doe</cite>
</div>
<div class="testimonial-card">

<blockquote>
<p>"I can't recommend Small Business enough. Their team is knowledgeable and friendly, and they really went above and beyond to help me with my needs."</p>
</blockquote>
<cite>- John Smith</cite>
</div>
<div class="testimonial-card">

<blockquote>
<p>"I was really impressed with Small Business. They were prompt and professional, and their rates were very reasonable."</p>
</blockquote>
<cite>- Sarah Johnson</cite>
</div>
</section>
<!-- Bootstrap JS -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.3/dist/umd/popper.min.js"></script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/js/bootstrap.min.js"></script>
</body>
</html>

```

11 Write ES6 script to define 2 arrays of 5 elements. Perform following operations on arrays:

- Make arrow function to merge both arrays in 3rd array.**
- Find second maximum from both arrays without sorting.**
- Find summation of both individual arrays.**

```

<html>
<head>
</head>
<body>
<script>
var arr1 = [1,2,3,4,5];
var arr2 = [6,7,8,9,10];
merge = (arr1,arr2) =>{
  var arr3 = arr1.concat(arr2);
  console.log(arr3);
}

```

```
secondmaxarr1 = (arr1) =>{
  let first = arr1[0];
  let second = arr1[0];

  for(let i = 0; i <= arr1.length-1; i++){
    if(arr1[i] > first){
      second = first;
      first = arr1[i];
    }
    else if( arr1[i] > second && arr1[i] != first){
      second = arr1[i];
    }
  }
  console.log(second);
}
```

```
secondmaxarr2 = (arr2) =>{
  let first = arr2[0];
  let second = arr2[0];

  for(let i = 0; i <= arr2.length-1; i++){
    if(arr2[i] > first){
      second = first;
      first = arr2[i];
    }
    else if( arr2[i] > second && arr2[i] != first){
      second = arr2[i];
    }
  }
  console.log(second);
}
```

```
sumarr1 = (arr1) =>{
  var sum=0;
  for (let i=0 ; i<arr1.length ; i++){
    sum+=arr1[i];
  }
  console.log("Sum of arr1 is :" +sum);
}
```

```
sumarr2 = (arr2) =>{
  var sum=0;
  for (let i=0 ; i<arr2.length ; i++){
    sum+=arr2[i];
  }
}
```

```

        console.log("Sum of arr2 is :" +sum);
    }
</script>
<input type="button" value="merge" onclick="merge(arr1,arr2)" name="" id="">
<br>
<input type="button" value="second max element in arr1" onclick="secondmaxarr1(arr1)" name="" id="">
<br>
<input type="button" value="second max element in arr2" onclick="secondmaxarr2(arr2)" name="" id="">
<br>
<input type="button" value="sum of arr 1" onclick="sumarr1(arr1)" name="" id="">
<br>
<input type="button" value="sum of arr 2" onclick="sumarr2(arr2)" name="" id="">
</body>
</html>

```

9 Write a JS to design a signup form having fields like username, password, confirm password, gender, hobbies including various sports, address, states with country title, submit and reset button. Design decorative and attractive for by applying style according to your level of discretion. Textfields should be highlighted while gaining focus and entering data. They should return in original position, when data entering is over and user switches to other fields. Apply following validations:

- Username should accept alphanumeric characters only.
- Password and confirm password must match.
- Keep one checkbox having option “All”. If user selects this checkbox, then all remaining checkboxes should be checked. If any of the remaining checkbox deselects, then “All” should also get deselected.

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        body{
            background-color: black;
        }
        form{

```

```
display: flex;
flex-direction: column;
width: 500px;
border: 1px black solid;
background-color: #15172b;
color: white;
border-radius: 20px;
padding: 10px;
}

input,select,textarea {
    background-color: #303245;
    color: #eee;
    border-radius: 10px;
}

</style>
</head>
<body>
<form action="" >
<h1>
    Welcome Back!!
</h1>
<br>
<input type="text" placeholder="Username" id="username">
<br>
<input type="password" placeholder="Password" id="pass">
<br>
<input type="password" placeholder="Confirm Password" id="con_pass">
<br>
<label for="">
    Gender <input type="radio" name="" id="">Males
    <input type="radio" name="" id="">Female
</label>
<br>

hobbies
<br>
<label for="">
    <input type="checkbox" name="" class="c" onclick="uncheckall(this)">Cricket
    <input type="checkbox" name="" class="c" onclick="uncheckall(this)">Football
    <input type="checkbox" name="" class="c" onclick="uncheckall(this)">Swimming
    <input type="checkbox" name="" class="c" onclick="uncheckall(this)">Guitar
    <input type="checkbox" name="" id="all" class="c" onclick="checkUncheck(this)">all
</label>
<br>
```

```

<label for="">
    address
    <textarea name="" id="" cols="30" rows="10"></textarea>
</label>
<br>
<select name="" id="">
    <option value="" disabled selected>Select state</option>
    <optgroup label="India">
        <option value="">Bihar</option>
        <option value="">Rajasthan</option>
        <option value="">New Delhi</option>
    </optgroup>
    <optgroup label="Usa">
        <option value="">Ohio</option>
        <option value="">Alaska</option>
        <option value="">California</option>
    </optgroup>
</select>
<br>
<input type="submit" value="submit">
<br>
<input type="reset" value="reset">
</form>
<script>
function validation(){
    var username=document.getElementById("username");
    var pass=document.getElementById("pass");
    var con_pass=document.getElementById("con_pass");
    var pat=/^[A-Za-z0-9]+$/;
    if(!pat.test(username)){
        alert("Username should be alphanumeric");
        return
    }
    if(pass!=con_pass)
    {
        alert("Password and confirm password field should be same")
    }
}

function uncheckall(id){
    var allcheckbox=document.getElementById("all");
    if(id.checked==0){
        allcheckbox.checked=false
    }
}
function checkUncheck(id) {

```

```

get = document.getElementsByClassName('c');
for(var i=0; i<get.length; i++) {
  get[i].checked = id.checked;
}

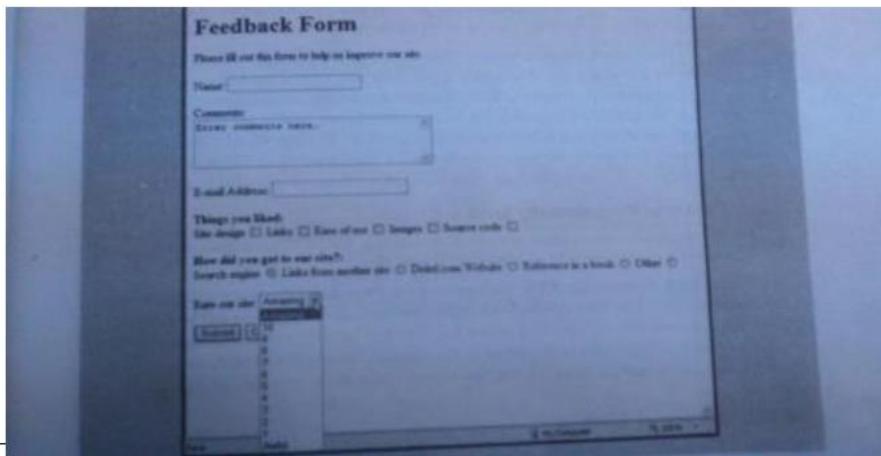
}

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

```

8

Design following form with given validation. Name must be letters only with 20 letters maximum. Email ID validation should also be performed.



```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
  <h1>
    Feedback Form
  </h1>
  <p>
    Please fill this form to help us.....
  </p>
  <form action="" onsubmit="validation()">
    <label for="">
      Name <input type="text" id="name">
    </label>
    <br>
    <br>

```

```
<label for="">
    Comments
    <br>
    <textarea name="" id="" cols="30" rows="10"></textarea>
</label>
<br>
<br>
<label for="">
    Email Address <input type="text" id="email">
</label>
<br>
<br>
    Things you liked
<br>
cake <input type="checkbox" name="checkbox" id="">
Ice cream <input type="checkbox" name="checkbox" id="">
soda <input type="checkbox" name="checkbox" id="">
<br>
<br>
how did you got to know us?
<br>
search engine <input type="radio" name="know_us" id="">
facebook <input type="radio" name="know_us" id="">
Newspaper <input type="radio" name="know_us" id="">
<br>
<br>

rate us <select name="" id="">
    <option value="" disabled selected>out of 10</option>
    <option value="10">10</option>
    <option value="9">9</option>
    <option value="8">8</option>
    <option value="7">7</option>
    <option value="6">6</option>
    <option value="5">5</option>
    <option value="4">4</option>
    <option value="3">3</option>
    <option value="2">2</option>
    <option value="1">1</option>
    <option value="0">awfull</option>
</select>
<br>
<input type="submit" value="submit">
<input type="reset" value="reset">
</form>
<script>
```

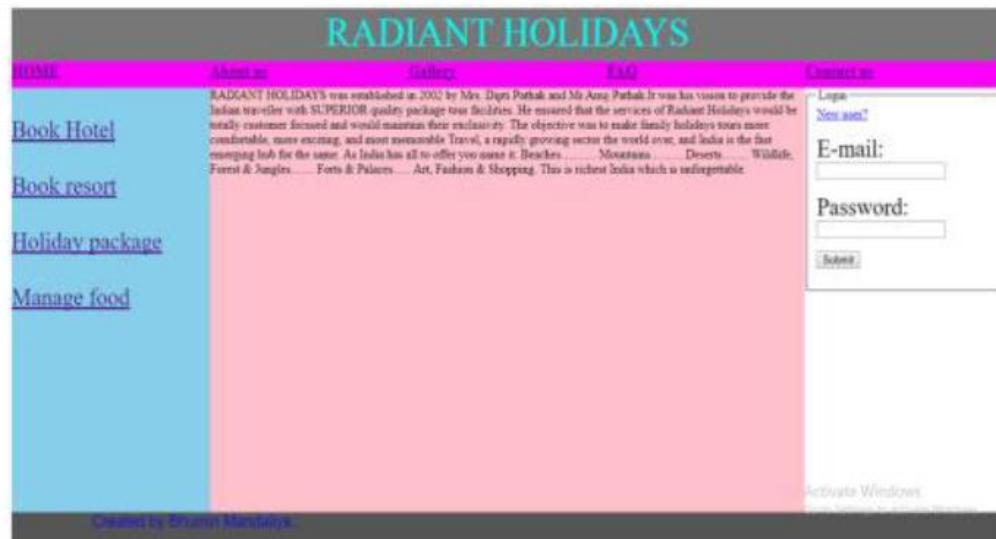
```

function validation(){
    var name= document.getElementById("name").value;
    var email= document.getElementById("email").value;
    var pat=/^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/;
    var pat2=/^([A-Za-z]+$/;
    if(!pat2.test(name)) || name.length>20){
        alert("Name should contain only letter and lenght must be less than 20");
        return
    }
    if(!pat.test(email))
    {
        alert("Email format incorrect")
        return
    }
}
</script>
</body>
</html>

```

7

Design following. Page must be responsive for medium device. Use external CSS wherever needed.



File 1

```

<!DOCTYPE html><html>
<head>
    <title> 1</title>
</head>
<body>
    <h3 align="center" style="background-color: gray;">Radiant Holidays</h3>
    <table width="50%" align="center">
        <tr>
            <td><a href="#">Home</a></td>

```

```
<td><a href="#">About us</a></td>
<td><a href="#">Gallery</a></td>
<td><a href="#">FAQ</a></td>
<td><a href="#">Contact</a></td>
</tr>
</table>
</body>
</html>
```

File 2

```
<!DOCTYPE html>
<html>
<head>
<title>2</title>
</head>
<body bgcolor="lightblue">
<table height="50%">
<tr>
<td><a href="#">Book Hotel</a></td>
</tr>

<tr>
<td><a href="#">Book Resort</a></td>
</tr>

<tr>
<td><a href="#">Holiday Package</a></td>
</tr>

<tr>
<td><a href="#">Manage Food</a></td>
</tr>

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

File 3

```
<!DOCTYPE html>
<html>
<head>
<title>3</title>
</head>
<body bgcolor="pink">
```

```
<pre>
Lorem ipsum, dolor sit amet consectetur adipisicing elit.
Fuga nobis pariatur excepturi itaque placeat cumque dolor qui omnis.
Laborum dignissimos amet accusantium neque tempore.
```

```
Lorem ipsum, dolor sit amet consectetur adipisicing elit.
Fuga nobis pariatur excepturi itaque placeat cumque dolor qui omnis.
Laborum dignissimos amet accusantium neque tempore .
```

```
Lorem ipsum, dolor sit amet consectetur adipisicing elit.
Fuga nobis pariatur excepturi itaque placeat cumque dolor qui omnis.
Laborum dignissimos amet accusantium neque tempore.
```

```
Lorem ipsum, dolor sit amet consectetur adipisicing elit.
Fuga nobis pariatur excepturi itaque placeat cumque dolor qui omnis.
Laborum dignissimos amet accusantium neque tempore.
```

```
</pre>
```

```
</body>
```

```
</html>
```

File 4

```
<!DOCTYPE html>
<html>
  <head>
    <title>4</title>
  </head>
  <body>
    <table width="200%">
      <tr>
        <td>Copyright</td>
        <td>Managed By</td>
      </tr>
    </table>
  </body>
</html>
```

Form1

```
<html>
  <head>
    <title>Form</title>
  </head>
  <!--<style>
    fieldset{
      width: 40vw;
    }
  </style>
```

```

form{
    display: flex;
    justify-content: center;
    align-items: center;
}
</style> -->
<body>

<form method="get" action="form.html" >
    <fieldset style="width:40vw;">
        <legend align="left">SignUp</legend>
    <table align="left">
        <tr>
            <label><td> Username:</td>
            <td><input type="text" maxlength="10"
                placeholder="Enter username" name="uname"></td></label></tr>
        <tr>
            <label><td> Password:</td>
            <td><input type="password" maxlength="10"
                placeholder="Enter Password" name="pass"></td></label> </tr>
        <tr>
            <td>Gender:</td>
            <td><input type="radio" name="gen" checked/> Male<input type="radio" name="gen"
                >Female
            <input type="radio" name="gen" >Others</td></tr>
        <tr>
            <td>Area of interest:</td>
            <td><input type="checkbox" name="aoi1">DE
            <input type="checkbox" name="aoi2">DBMS
            <input type="checkbox" name="aoi3">DS</td></tr>
        <tr>
            <td>Department:</td>
            <td><select>
                <option value="" disabled hidden selected>--Select Branch--</option>
                <optgroup label="CE">
                    <option>CSE</option>
                    <option>IT</option>
                </optgroup>
                <optgroup label="MECH">
                    <option>CAD</option>
                    <option>THERMAL</option>
                </optgroup>
            </select></td></tr>
        <tr>
            <td>Address:</td>
            <td><textarea rows="5" cols="5" name="add"></textarea></td></tr>

```

```

<tr>
  <td>Upload CV:</td>
  <td><input type="file" name="f1"/></td></tr>
<tr>
  <td>Submit:</td>
  <td><input type="submit" value="Click here"/></td></tr>
<tr>
  <td>Reset:</td>
  <td><input type="reset" value="Click here"/></td></tr>
</table>
</fieldset>
</form>
</body>
</html>

```

File final

```

<!DOCTYPE html>
<html>
  <head>
    <title>Last</title>
  </head>
  <frameset rows="15%, *, 15%">
    <frame style="background-color:gray" src="file1.html"/>
    <frameset style="background-color:lightblue" cols="10%, *, 40%">
      <frame src="file2.html"/>
      <frame src="file3.html"/>
      <frame src="form1.html"/>
    </frameset>
    <frame src="file4.html"/>
  </frameset>

</html>

```

6 Create a Bootstrap modal with a form that has fields for Name, Email, and Message

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!-- Latest compiled and minified CSS -->
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css"

```

```

rel="stylesheet">

<!-- Latest compiled JavaScript -->
<script
  src="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/js/bootstrap.bundle.min.js"></script>
<title>Document</title>
</head>
<body>
  <div class="container mt-3">

    <button class="btn btn-primary" data-bs-toggle="modal" data-bs-target="#ex">CLICK
HERE</button>
    <div class="modal fade" id="ex">
      <div class="modal-dialog modal-sm modal-dialog-centered">
        <div class="modal-content">
          <div class="modal-header">
            <h5 class="modal-title">MODAL TITLE</h5>
            <button class="close" data-bs-dismiss="modal">&times;</button>
          </div>
          <div class="modal-body">
            <form action="#">
              NAME:<input type="text" placeholder="name"><br><br><br>
              EMAIL:<input type="email" placeholder="email"><br><br><br>
              MESSAGE:<textarea>

                </textarea><br>
              </form>
            </div>
            <div class="modal-footer">

              <button class="btn btn-danger" data-bs-dismiss="modal">Close</button>
            </div>
          </div>
        </div>
      </div>
    </div>
  </body>
</html>

```

**4 Using html and js make a registration form the fields like
firstname,lastname,date of birth,mobile number,gender, address, city,
pincode, email id state,country,hobbies, make a qualification table
which required filed like sr_no,board,percentage, passing year and last**

is which course you can applied and make 2 button submit and reset. use validation for firstname and lastname should max 20 letters, and also add email validation using RE.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form action="" name="form" onsubmit="validation()">
        <table>
            <tr>
                <label for="">
                    <td>
                        Firstname
                    </td>
                    <td>
                        <input type="text" name="f_name" placeholder="Enter firstname" maxlength="20">
                    </td>
                </label>
            </tr>
            <tr>
                <label for="">
                    <td>
                        Lastname
                    </td>
                    <td>
                        <input type="text" name="l_name" placeholder="Enter lastname" maxlength="20">
                    </td>
                </label>
            </tr>
            <tr>
                <label for="">
                    <td>
                        Date of birth
                    </td>
                    <td>
                        <input type="date">
                    </td>
                </label>
            </tr>
        </table>
    </form>
</body>
```

```
</label>
</tr>
<tr>
    <label for="">
        <td>
            Mobile Number
        </td>
        <td>
            <input type="number" name="mobile_no" placeholder="Enter your mobile no">
        </td>
    </label>
</tr>
<tr>
    <label for="">
        <td>
            Gender
        </td>
        <td>
            <input type="radio" name="gender" value="male">Male
            <input type="radio" name="gender" value="female">Female
        </td>
    </label>
</tr>
<tr>
    <label for="">
        <td>
            Address
        </td>
        <td>
            <textarea name="address" cols="20" rows="10" style="resize: none;" placeholder="Enter your address">
            </textarea>
        </td>
    </label>
</tr>
<tr>
    <label for="">
        <td>
            Email id
        </td>
        <td>
            <input type="text" name="email">
            <!-- input type text because we are implementing
            custom validation using javascript -->
        </td>
    </label>
```

```
</tr>
<tr>
    <label for="">
        <td>
            hobbies
        </td>
        <td>
            <input type="checkbox" name="hobbies">hockey
            <input type="checkbox" name="hobbies">cricket
            <input type="checkbox" name="hobbies">swimming
        </td>
    </label>
</tr>
</table>
<table border="1">
    <tr>
        <label for="">
            <td>
                Sr no.
            </td>
            <td>
                <input type="number" name="sr_no" placeholder="Enter your sr no" required>
            </td>
        </label>
    </tr>
    <tr>
        <label for="">
            <td>
                board
            </td>
            <td>
                <input type="text" name="board" id="" placeholder="Enter your board"
required>
            </td>
        </label>
    </tr>
    <tr>
        <label for="">
            <td>
                percentage
            </td>
            <td>
                <input type="number" name="percentage" placeholder="Enter your percentage"
required>
            </td>
        </label>
```

```

</tr>
<tr>
    <label for="">
        <td>
            Passing Year
        </td>
        <td>
            <input type="date" name="p_year" placeholder="Enter your passing year"
required>
        </td>
    </label>
</tr>
<tr>
    <label for="">
        <td>
            course
        </td>
        <td>
            <select name="" id="" required>
                <option value="btech">
                    BTECH
                </option>
                <option value="mtech">
                    MTECH
                </option>
                <option value="phd">
                    PHD
                </option>
            </select>
        </td>
    </label>
</tr>
</table>
<input type="submit" value="submit" >
<input type="reset" value="reset">
</form>

<script>
    function validation()
    {
        var firstname= document.forms["form"]["f_name"].value;
        var lastname =document.forms["form"]["l_name"].value;
        var email =document.forms["form"]["email"].value;
        var pat=/^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/;

        if (firstname.length>20 || lastname.length>20){

```

```

        alert("The lenght of firstname and lastname should be less than 20 characters")
        return
    }
    if(!pat.test(email)){
        alert("Enter email in correct format")
        return
    }
}

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

```

3 Using bootstrap make a home page for service at home use in navigation bar functionality like login, signup, services, about us, contact us and using carousel add in atleast 3 image on same page home.html add in navigation additional icon when u observed responsiveness.

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztqQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"
integrity="sha384-
MrcW6ZMFYIzcLA8NI+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtlaxVXM"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js"
integrity="sha384-
IQsoLXI5PILFhosVNubq5LC7Qb9DXgDA9i+tQ8Zj3iwWAwPtgFTxbJ8NT4GN1R8p"
crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.min.js"
integrity="sha384-
cVKIPhGWiC2AI4u+LWgxfKTRIcfu0JTxR+EQDz/bgldoEyl4H0zUF0QKbrJ0EcQF"
crossorigin="anonymous"></script>
</head>
<body>

```

<!-- Using bootstrap make a home page for service at home use in navigation bar functionality like login,

signup, services, about us, contact us and using carousel add in atleast 3 image on same page home.html add in navigation

additional icon when u observed responsiveness. -->

```
<nav class="navbar navbar-expand-sm navbar-dark bg-dark">
<div class="container-fluid">
  <button class="navbar-toggler" data-bs-toggle="collapse" data-bs-target="#link">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="link">
    <ul class="navbar-nav">
      <li class="nav-item">
        <a class="nav-link" href="#">HOME</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">LOGIN</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">CONTACT US</a>
      </li>
      <li class="nav-item">
        <a class="nav-link" href="#">ABOUT US</a>
      </li>
    </ul>
  </div>
</div>
</nav>
```

<!-- carousel -->

```
<div class="carousel slide" id="demo" data-bs-ride="carousel">
  <div class="carousel-indicators">
    <button class="active" data-bs-slide-to="0" data-bs-target="#demo"></button>
    <button data-bs-target="#demo" data-bs-slide-to="1"></button>
    <button data-bs-target="#demo" data-bs-slide-to="2"></button>
  </div>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
    <div class="carousel-item">
      
    </div>
```

```


</div>
</div>
<button class="carousel-control-prev" data-bs-target="#demo" data-bs-slide="prev">
  <span class="carousel-control-prev-icon"></span>
</button>
<button class="carousel-control-next" data-bs-target="#demo" data-bs-slide="next">
  <span class="carousel-control-next-icon"></span>
</button>
</div>

</body>
</html>

```

2

Invoice #123456789		14 January 2025	
Pay to:		Customer:	
Acme Billing Co. 123 Main St. Cityville, NA 12345		John Smith 321 Willow Way Southeast Northwestershire, MA 54321	
Name / Description	Qty.	@	Cost
Paperclips	1000	0.01	10.00
Staples (box)	100	1.00	100.00
Subtotal		110.00	
Tax		8.80	
Grand Total		\$ 118.80	

Make a table using html tags and make a first row while hovering red in color and 4th and 5th row should have while hovring cyan color and when we click on text then text should turn blue in color make a table responsive. Use appropriate selectors.

```

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>

```

```
<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.css">
<script src="https://cdn.jsdelivr.net/npm/jquery@3.6.1/dist/jquery.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"></script>
<script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.min.js"></script>
<style>
.table{width:50%;
height: 50%;
}
.table tr:nth-child(1):hover {
background-color: red;
}
.table tr:nth-child(4):hover, .table tr:nth-child(5):hover {
background-color: cyan;
}
.table td:active{
background-color: blue;
}
</style>
</head>
```

```
<body>
<table class="table table-bordered table-hover table-sm">

<tr align="left">
<td colspan="3">Invoice</td>
<td>04 JAN</td>
</tr>

<tr align="left">
<td colspan="2">Pay to:<br>ACMA<br>L3<br>L4</td>
<td colspan="2">Customer:<br>fjfi<br>ere<br>fndj</td>
</tr>
<tr align="left">
<td>NAME</td>
<td>Qty</td>
<td>@</td>
<td>Cost</td>
</tr>

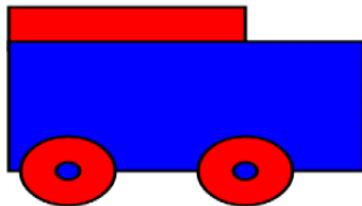
<tr align="left">
<td>Paperclips</td>
```

```

<td>1000</td>
<td>200</td>
<td>10</td>
</tr>
<tr align="left">
<td>Staples</td>
<td>1000</td>
<td>200</td>
<td>100</td>
</tr>
<tr align="left">
<td colspan="3">SUBTOTAL</td>
<td>110</td>
</tr>
<tr align="left">
<td colspan="2">TAX</td>
<td>8%</td>
<td>8.8</td>
</tr>
<tr align="left">
<td colspan="3">Grand Total</td>
<td>118.8</td>
</tr>
</table>
</body>
</html>

```

1



USING SVG MAKE ABOVE IMAGE AN ADD MOVING EFFECT LEFT-RIGHT-BOTTOM-TOP

```

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">

```

```
<title>Document</title>
<style>

div{
    position: relative;
    animation-name: meet;
    animation-duration: 4s;
}
@keyframes meet{
    0% {left: 0; top:0;}
    25% {left: 85vw ; top:0;}
    50%{left: 85vw; top:75vh;}
    75%{left: 0; top:75vh;}
    100% {left: 0; top:0;}
}

}
</style>
</head>
<body>
<div>
<svg width="200" height="200">
    <rect x="0" y="20" width="150" height="100" fill="red" stroke-width="2" stroke="black"/>
    <rect x="0" y="40" width="200" height="100" fill="blue" stroke-width="2" stroke="black"/>
    <circle cx="30" cy="140" r="20" fill="red" stroke-width="2" stroke="black"/>
    <circle cx="170" cy="140" r="20" fill="red" stroke-width="2" stroke="black"/>
    <circle cx="30" cy="140" r="10" fill="blue" stroke-width="2" stroke="black"/>
    <circle cx="170" cy="140" r="10" fill="blue" stroke-width="2" stroke="black"/>
</svg>
</div>
</body>
</html>
```