**LAB 6**

**Samad Amir**

**21k-3873**

**BSE-6A**

**Task01:**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>www.SamadAmir.com</title>

</head>

<body>

    <h1>Task 01</h1>

    <script>

        function task1()

{

    let name = "Samad"

    var age = 21

    const cnic=12121

    let gpa = null

    console.log(name,age,cnic,gpa)

}

task1()

    </script>

</body>

</html>

**Output:**

****

**Task02:**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>www.SamadAmir.com</title>

</head>

<body>

    <script>

        function reverseString(str) {

    return str.split("").sort((a,b)=>{

        if (a<b) return -1

        else if (a>b) return 1

        else return 0

    }).join("")

}

console.log(reverseString("samad"));

    </script>

</body>

</html>

**Output:**

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**Task03:**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>www.SamadAmir.com</title>

</head>

<body>

    <div class="form">

        <label for="guessField">

            Enter a number:

        </label>

        <input type="text" id="guessField" class="guessField">

        <input type="submit" value="Submit" class="guessSubmit" id="submitguess">

    </div>

    <script>

        document.getElementById("submitguess").onclick = function() {

            let num = Number(document.getElementById("guessField").value);

            let result = num;

            for (let i = 1; i <= 10; i++) {

                result += num;

                console.log(result);

            }

        }

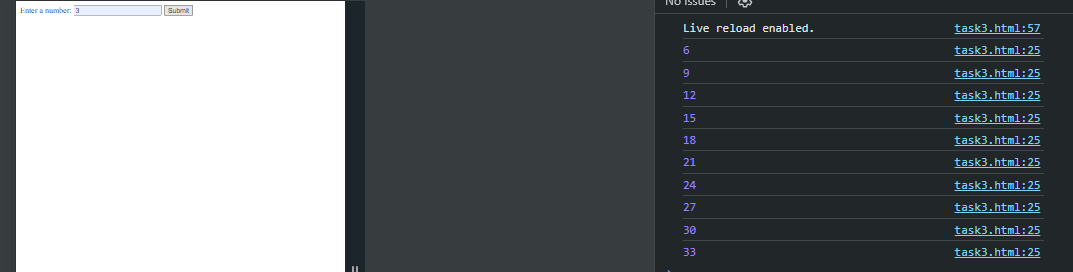
    </script>

</body>

</html>

**Output:**

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**Task04:**

**Code:**

<!DOCTYPE html>

<html lang="en" dir="ltr">

<head>

  <meta charset="utf-8">

  <title>www.SamadAmir.com</title>

  <style>

    .calculator {

    padding: 10px;

    border-radius: 1em;

    height: 380px;

    width: 400px;

    margin: auto;

    background-color: hsl(48, 85%, 52%);

    box-shadow: rgba(0, 0, 0, 0.19) 0px 10px 20px, rgba(0, 0, 0, 0.23) 0px 6px 6px;

}

.display-box {

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

    background-color: #dcdbe1;

    border: solid black 0.5px;

    color: black;

    border-radius: 5px;

    width: 100%;

    height: 65%;

}

#btn {

    background-color: white;

}

input[type=button] {

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

    background-color: white;

    color: black;

    border: solid black 0.5px;

    width: 100%;

    border-radius: 5px;

    height: 70%;

    outline: none;

}

input:active[type=button] {

    background: #e5e5e5;

    -webkit-box-shadow: inset 0px 0px 5px #c1c1c1;

    -moz-box-shadow: inset 0px 0px 5px #c1c1c1;

    box-shadow: inset 0px 0px 5px #c1c1c1;

}

  </style>

</head>

<body>

    <h1 style="background-color: hsl(48, 85%, 52%); color: white;padding-left: 30%;padding-bottom: 30px;">Simple calculator using JavaScript</h1>

<table class="calculator" >

  <tr>

    <td colspan="3"> <input class="display-box" type="text" id="result" disabled /> </td>

    <td> <input type="button" value="C" onclick="clearScreen()" id="btn" /> </td>

  </tr>

  <tr>

    <td> <input type="button" value="1" onclick="display('1')" /> </td>

    <td> <input type="button" value="2" onclick="display('2')" /> </td>

    <td> <input type="button" value="3" onclick="display('3')" /> </td>

    <td> <input type="button" value="/" onclick="display('/')" /> </td>

  </tr>

  <tr>

    <td> <input type="button" value="4" onclick="display('4')" /> </td>

    <td> <input type="button" value="5" onclick="display('5')" /> </td>

    <td> <input type="button" value="6" onclick="display('6')" /> </td>

    <td> <input type="button" value="-" onclick="display('-')" /> </td>

  </tr>

  <tr>

    <td> <input type="button" value="7" onclick="display('7')" /> </td>

    <td> <input type="button" value="8" onclick="display('8')" /> </td>

    <td> <input type="button" value="9" onclick="display('9')" /> </td>

    <td> <input type="button" value="+" onclick="display('+')" /> </td>

  </tr>

  <tr>

    <td> <input type="button" value="." onclick="display('.')" /> </td>

    <td> <input type="button" value="0" onclick="display('0')" /> </td>

    <td> <input type="button" value="=" onclick="calculate()" id="btn" /> </td>

    <td> <input type="button" value="\*" onclick="display('\*')" /> </td>

  </tr>

</table>

<script>

    function clearScreen() {

    document.getElementById("result").value = "";

}

function display(value) {

    document.getElementById("result").value += value;

}

function calculate() {

    var p = document.getElementById("result").value;

    var q = eval(p);

    document.getElementById("result").value = q;

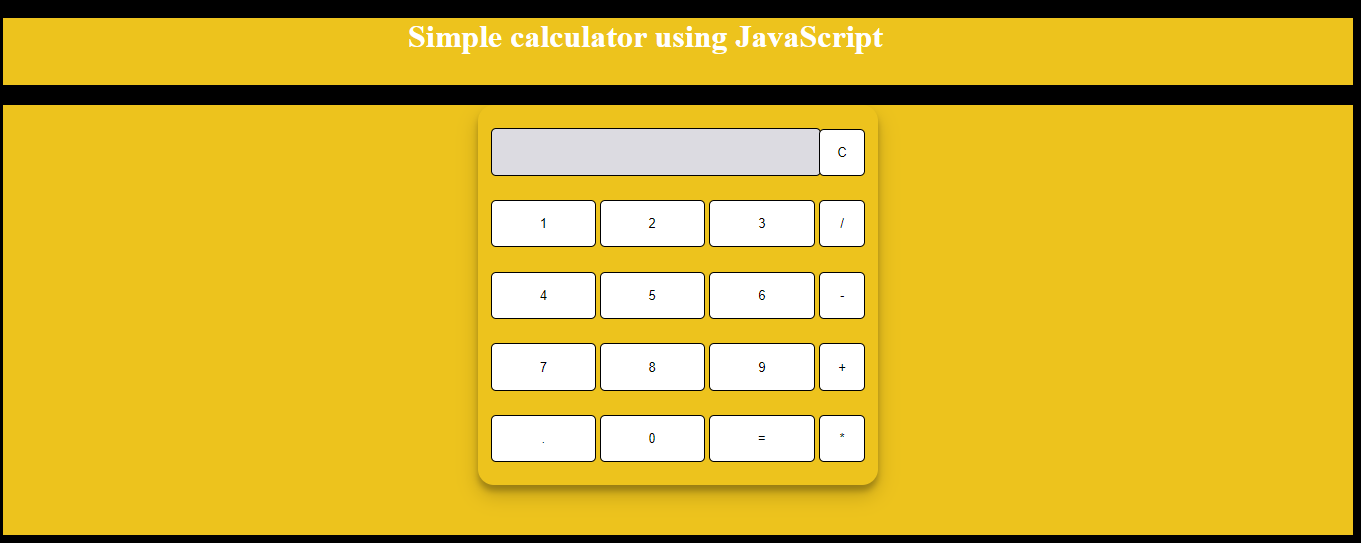
}

</script>

</body>

</html>

**Output:**

****

**Task05:**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

</head>

<body>

    <div class="form">

        <label for="guessField">

            Enter a name:

        </label>

        <input type="text" id="guessField" class="guessField">

        <input type="submit" value="Check Palindrome" class="guessSubmit" id="submitguess">

    </div>

    <script>

        document.getElementById("submitguess").onclick = function() {

            const inputString = document.getElementById("guessField").value;

            const len = inputString.length;

            let isPalindrome = true;

            for (let i = 0; i < len / 2; i++) {

                if (inputString[i] !== inputString[len - 1 - i]) {

                    isPalindrome = false;

                    break;

                }

            }

            if (isPalindrome) {

                console.log('It is a palindrome');

            } else {

                console.log('It is not a palindrome');

            }

        }

    </script>

</body>

</html>

**Output:**

****

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**Task06:**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet"

        integrity="sha384-T3c6CoIi6uLrA9TneNEoa7RxnatzjcDSCmG1MXxSR1GAsXEV/Dwwykc2MPK8M2HN" crossorigin="anonymous">

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.4/css/all.min.css">

    <title>www.SamadAmir.com</title>

</head>

<body>

    <div class="container" style="width: 30%; margin-left: 30%; margin-top: 10%;">

        <div class="card-body">

            <p class="text-center fs-4">Sign Up</p>

            <form id="signupForm">

                <div class="mb-3">

                    <label for="exampleInputEmail1" class="form-label">Your Email</label>

                    <input type="email" class="form-control" id="exampleInputEmail1" placeholder="Enter email">

                </div>

                <div class="mb-3">

                    <label for="exampleInputPassword1" class="form-label">Your Password</label>

                    <input type="password" class="form-control" id="exampleInputPassword1" placeholder="Enter Password">

                </div>

                <div class="input-group mb-3">

                    <textarea class="form-control" aria-label="With textarea" id="messageInput" placeholder="Message"></textarea>

                </div>

                <button type="submit" class="btn btn-primary text-center px-5 rounded-pill w-100">Send Message</button>

            </form>

        </div>

        <div id="resultBox" class="mt-4"></div> <!-- Result Box -->

        <div class="flex mx-4 py-4">

            <a href="#" class="mx-4" role="button"><i class="fab fa-facebook-f light-blue-text"></i></a>

            <a href="#" class="mx-4" role="button"><i class="fab fa-twitter light-blue-text"></i></a>

            <a href="#" class="mx-4" role="button"><i class="fab fa-google light-blue-text"></i></a>

        </div>

    </div>

    <script src="signup.js"></script>

</body>

</html>

<script>

document.getElementById("signupForm").addEventListener("submit", function(event) {

    event.preventDefault(); // Prevent default form submission

    // Get form inputs

    var email = document.getElementById("exampleInputEmail1").value;

    var password = document.getElementById("exampleInputPassword1").value;

    var message = document.getElementById("messageInput").value;

    // Display the entered values in the result box

    var resultBox = document.getElementById("resultBox");

    resultBox.innerHTML = "<p>Email: " + email + "</p>" +

                           "<p>Password: " + password + "</p>" +

                           "<p>Message: " + message + "</p>";

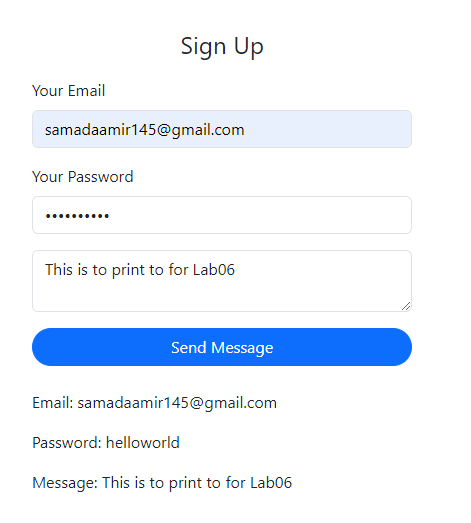
});

</script>

</body>

</html>

**Output:**

****

**Task07:**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>www.SamadAmir.com</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">

    <style>

        .error {

            color: red;

        }

    </style>

</head>

<body>

    <div class="container mt-5">

        <h2 class="mb-4">Sign Up</h2>

        <form id="signupForm" onsubmit="return validateForm()">

            <div class="mb-3">

                <label for="name" class="form-label">Name:</label>

                <input type="text" class="form-control" id="name" name="name" required>

                <span id="nameError" class="error"></span>

            </div>

            <div class="mb-3">

                <label for="contact" class="form-label">Contact:</label>

                <input type="text" class="form-control" id="contact" name="contact" required>

                <span id="contactError" class="error"></span>

            </div>

            <div class="mb-3">

                <label for="email" class="form-label">Email:</label>

                <input type="email" class="form-control" id="email" name="email" required>

                <span id="emailError" class="error"></span>

            </div>

            <div class="mb-3">

                <label for="password" class="form-label">Password:</label>

                <input type="password" class="form-control" id="password" name="password" required>

                <span id="passwordError" class="error"></span>

            </div>

            <div class="mb-3">

                <label class="form-label">Gender:</label>

                <div class="form-check">

                    <input class="form-check-input" type="radio" name="gender" id="male" value="male">

                    <label class="form-check-label" for="male">Male</label>

                </div>

                <div class="form-check">

                    <input class="form-check-input" type="radio" name="gender" id="female" value="female">

                    <label class="form-check-label" for="female">Female</label>

                </div>

                <span id="genderError" class="error"></span>

            </div>

            <div class="mb-3 form-check">

                <input type="checkbox" class="form-check-input" id="agree" name="agree" required>

                <label class="form-check-label" for="agree">I agree to the terms and conditions</label>

                <span id="agreeError" class="error"></span>

            </div>

            <button type="submit" class="btn btn-primary">Submit</button>

        </form>

        <div id="resultBox" class="mt-4"></div>

    </div>

    <script>

        function validateForm() {

            var name = document.getElementById("name").value;

            var contact = document.getElementById("contact").value;

            var email = document.getElementById("email").value;

            var password = document.getElementById("password").value;

            var gender = document.querySelector('input[name="gender"]:checked');

            var agree = document.getElementById("agree").checked;

            var namePattern = /^[a-zA-Z\s]+$/;//Firstname+Lastname

            var contactPattern = /^\d{11}$/;//11 digit contact

            var emailPattern = /^[^\s@]+@[^\s@]+\.[^\s@]+$/;//@ is must

            var passwordPattern = /^(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z]).{8,}$/;//Uppercase lowercase and number and must be 8characters

            if (!name.match(namePattern)) {

                document.getElementById("nameError").innerText = "Invalid name";

                return false;

            }

            if (!contact.match(contactPattern)) {

                document.getElementById("contactError").innerText = "Invalid contact";

                return false;

            }

            if (!email.match(emailPattern)) {

                document.getElementById("emailError").innerText = "Invalid email";

                return false;

            }

            if (!password.match(passwordPattern)) {

                document.getElementById("passwordError").innerText = "Password must contain at least 8 characters, including uppercase, lowercase letters, and numbers";

                return false;

            }

            if (!gender) {

                document.getElementById("genderError").innerText = "Please select gender";

                return false;

            }

            if (!agree) {

                document.getElementById("agreeError").innerText = "Please agree to terms and conditions";

                return false;

            }

            var resultBox = document.getElementById("resultBox");

            resultBox.innerHTML = "<h3>Registration Successful!</h3>" +

                                   "<p>Name: " + name + "</p>" +

                                   "<p>Contact: " + contact + "</p>" +

                                   "<p>Email: " + email + "</p>" +

                                   "<p>Gender: " + gender.value + "</p>";

            return false;

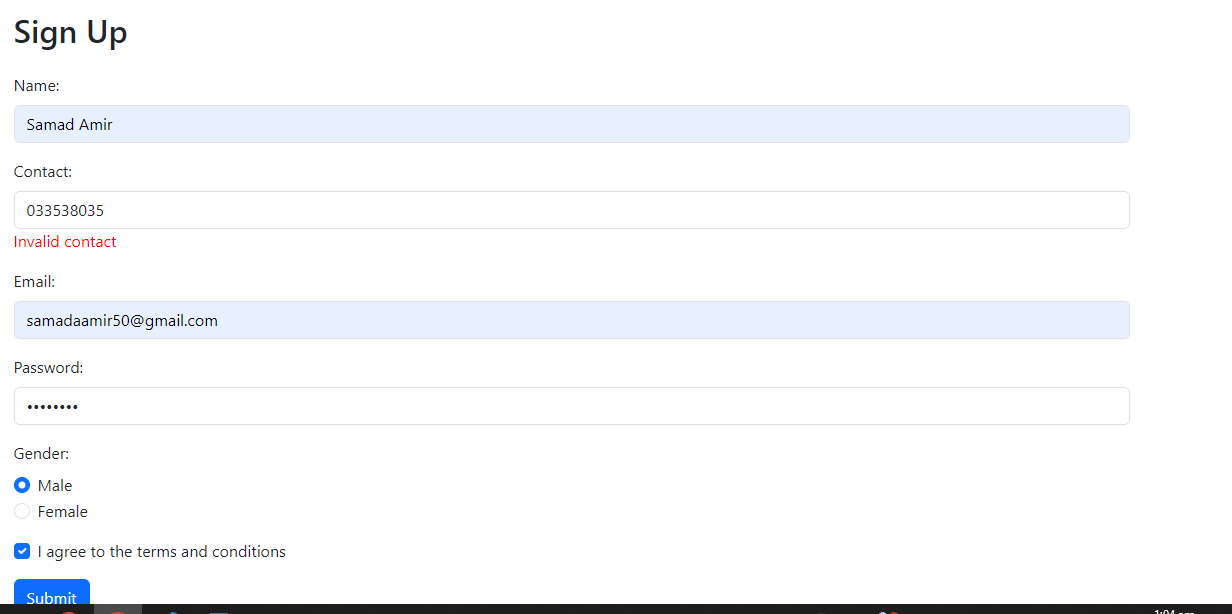
        }

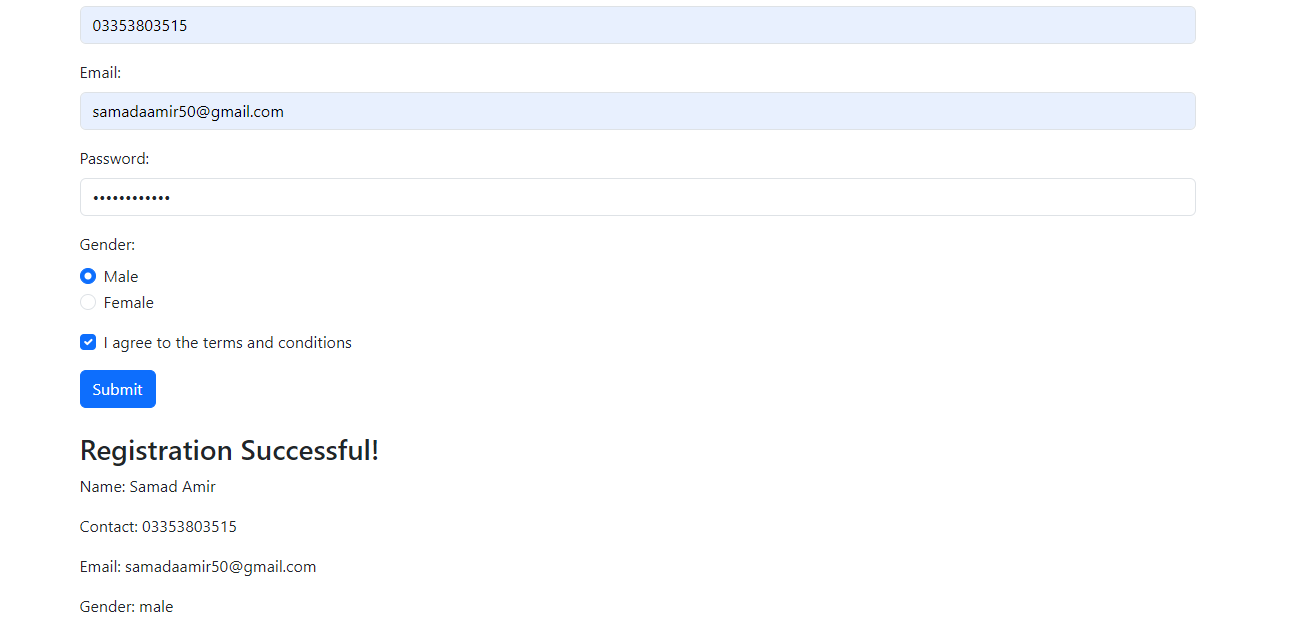
    </script>

</body>

</html>

**Output:**

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**Task08:**

**Code:**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Www.SamadAmir.com</title>

    <style>

        .slider-container {

            width: 80%;

            margin: 0 auto;

            overflow: hidden;

            position: relative;

        }

        .slider-images {

            display: flex;

            transition: transform 0.5s ease;

        }

        .slider-image {

            width: 100%;

            height: auto;

        }

    </style>

</head>

<body>

    <div class="slider-container">

        <div class="slider-images">

            <img class="slider-image" src="https://source.unsplash.com/random/600x400?sig=1" alt="Random Image 1">

            <img class="slider-image" src="https://source.unsplash.com/random/600x400?sig=2" alt="Random Image 2">

            <img class="slider-image" src="https://source.unsplash.com/random/600x400?sig=3" alt="Random Image 3">

         </div>

    </div>

    <script>

        document.addEventListener("DOMContentLoaded", function() {

            const sliderImages = document.querySelector('.slider-images');

            const sliderImageWidth = document.querySelector('.slider-image').clientWidth;

            let imageIndex = 0;

            function moveSlider() {

                imageIndex++;

                if (imageIndex === sliderImages.children.length) {

                    imageIndex = 0;

                }

                sliderImages.style.transform = `translateX(-${sliderImageWidth \* imageIndex}px)`;

            }

            setInterval(moveSlider, 4000);// for delay ;in ms so 1000ms means 1s

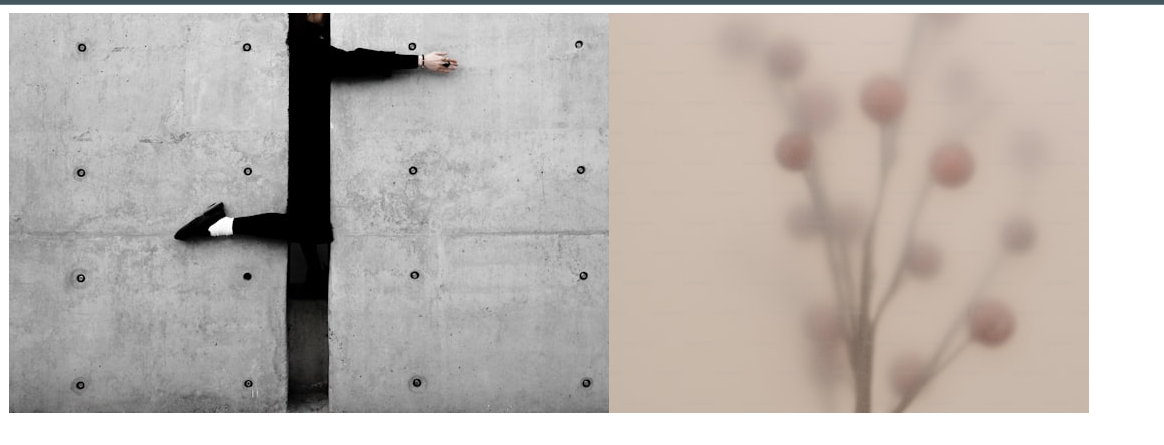
        });

    </script>

</body>

</html>

**Output:**

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