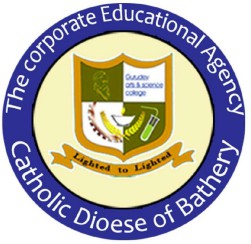
**GURUDEV ARTS AND SCIENCE COLLEGE**

MATHIL, PAYYANUR, KANNUR DIST.

(Affiliated to Kannur University)



**BACHELOR OF COMPUTER APPLICATION**

**WEB TECHNOLOGY**

**PRACTICAL RECORD**

:

:

**Name**

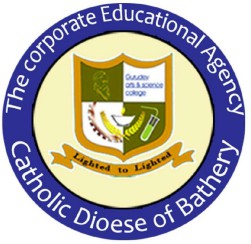
**Register No**



**GURUDEV ARTS AND SCIENCE COLLEGE**

MATHIL, PAYYANUR, KANNUR DIST.

(Affiliated to Kannur University)



**DEPARTMENT OF COMPUTER SCIENCE**

Certified that this is the bonafide record of practical work done by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of III BCA at Gurudev Arts and College, Mathil for the year 2024 to 2025.

Lecture Charge:



Examiner: 1.

2.

Head Of Dept. Computer Science

Submitted for University Examinations 2025

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**Q:** **Write an HTML code to insert an image into a web page. Ensure that the image is clickable, linking to another HTML page (e.g., Mark List.html). Use 1appropriate attributes to style the page, including background color, text alignment, and image dimensions.**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Image Document</title>

</head>

<body bgcolor="#ffe">

    <br><br>

    <h1 align="center" style="color:#000;">Gurudev Arts and Science College</h1>

    <br><br>

    <h3 align="center" style="color:blue;">Click on the link below for Registration</h3>

    <br>

    <div align="center">

        <a href="Mark List.html">

            <img src="new.jpeg" alt="Click here for Registration" height="200px" width="350px" border="2">

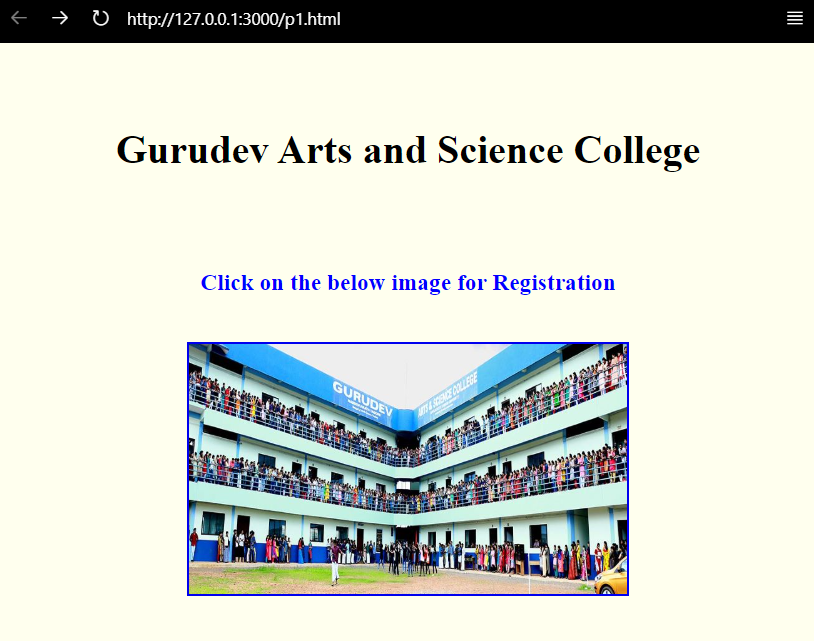
        </a>

    </div>

</body>

</html>

**OUTPUT:**



**Q: Create a web page displaying a Mark List in a tabular format. The table should include columns for Name, Department, Semester, and Register No.**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Mark List</title>

</head>

<body bgcolor="white">

<table border="1" align="center" cellspacing="0" width="540">

<tr>

<td height="180">

<h1 align="center"><u>MARK LIST</u></h1>

<p>

<strong>Name:</strong> Jakson John <br>

<strong>Department:</strong> BCA <br>

<strong>Semester:</strong> VI <br>

<strong>Register No:</strong> GD14BCAR01

</p>

<table width="480" border="1" cellspacing="0" align="center">

<tr bgcolor="#D3D3D3">

<th width="55" height="60" align="center">No</th>

<th width="360" align="center">Subject</th>

<th width="65" align="center">Mark</th>

</tr>

<tr align="center">

<td>1</td>

<td align="left">Operating System</td>

<td>65</td>

</tr>

<tr align="center">

<td>2</td>

<td align="left">Java Programming</td>

<td>75</td>

</tr>

<tr align="center">

<td>3</td>

<td align="left">C++ Programming</td>

<td>89</td>

</tr>

<tr align="center">

<td>4</td>

<td align="left">Algorithm Analysis and Design</td>

<td>91</td>

</tr>

<tr align="center">

<td>5</td>

<td align="left">Microprocessor</td>

<td>59</td>

</tr>

<tr bgcolor="#D3D3D3">

<td colspan="2" align="center"><h3>Total</h3></td>

<td align="center"><strong>379</strong></td>

</tr>

</table>

</td>

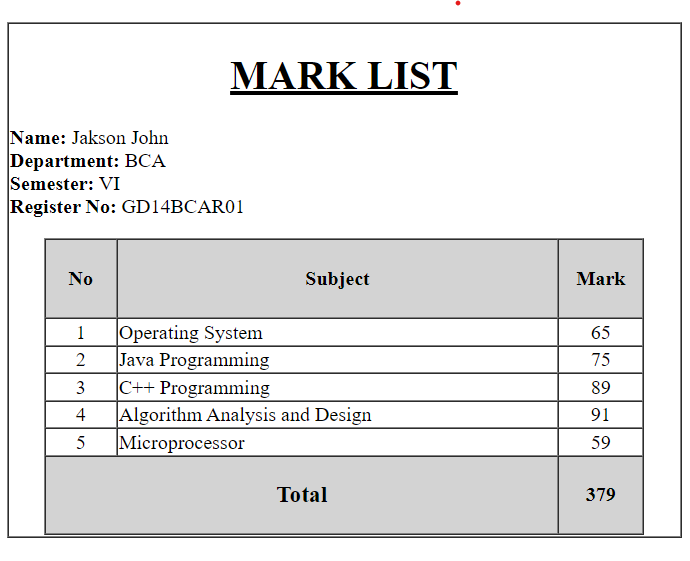
</tr>

</table>

</body>

</html>

**OUTPUT:**



**Q: Create an HTML page with images. Clicking on an image should open an external document or another HTML page.**

1. **Main Page (index.html)**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Image Link</title>

</head>

<body bgcolor="#FAF9F6" align="center">

    <h2>Click on the image to view another image</h2>

    <a href="D:\NOTES\PRACTICAL\WEB\p1.html">

        <img src="ClickHere.jpeg" width="400px" height="400px" border="2" alt="Click Here">

    </a>

</body>

</html>

1. **Linked Page (image.html)**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Second Image</title>

</head>

<body bgcolor="#ffe" align="center">

    <h2>HTML</h2>

    <img src="HtmlIcon.jpg" width="400px" height="400px" border="2" alt="Animal Image">

</body>

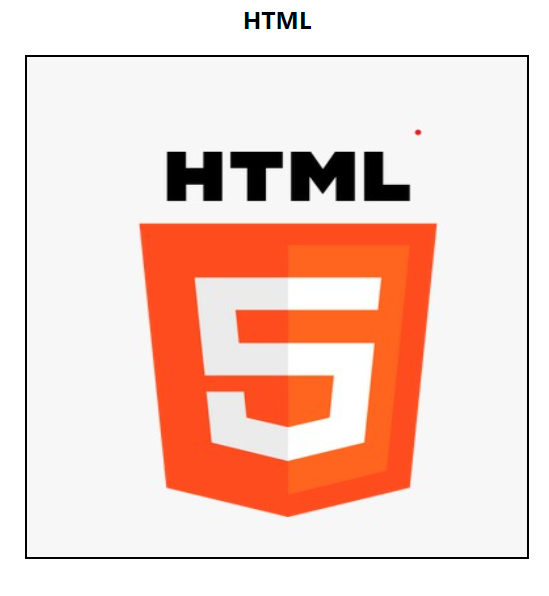
</html>

**OUTPUT:**

**Output of P3.1.html:**



After Clicking the image:



**Q: Create an application in HTML using HTML controls such as Text box, Text area, Radio Button, Check box etc.**

<!DOCTYPE html>

<html>

<head>

    <title>Application Form</title>

</head>

<body bgcolor="#E6F7FF">  <!-- Light blue background -->

    <div align="center">

        <h1>Application Form</h1>

        <table border="2" cellspacing="0" cellpadding="10" align="center">

            <tr>

                <td>

                    <table width="600" border="0" cellspacing="10">

                        <tr>

                            <td width="180"><b>Name</b></td>

                            <td width="20">:</td>

                            <td><input type="text" name="name"></td>

                        </tr>

                        <tr>

                            <td><b>Address</b></td>

                            <td>:</td>

                            <td><textarea name="address" rows="3" cols="30"></textarea></td>

                        </tr>

                        <tr>

                            <td><b>Father's Name</b></td>

                            <td>:</td>

                            <td><input type="text" name="father\_name"></td>

                        </tr>

                        <tr>

                            <td><b>Nationality</b></td>

                            <td>:</td>

                            <td><input type="text" name="nationality"></td>

                        </tr>

                        <tr>

                            <td><b>Religion</b></td>

                            <td>:</td>

                            <td><input type="text" name="religion"></td>

                        </tr>

                        <tr>

                            <td><b>Gender</b></td>

                            <td>:</td>

                            <td>

                                <input type="radio" name="gender" value="male"> Male

                                <input type="radio" name="gender" value="female"> Female

                            </td>

                        </tr>

                        <tr>

                            <td><b>Known Languages</b></td>

                            <td>:</td>

                            <td>

                                <input type="checkbox" name="language" value="mal"> Malayalam

                                <input type="checkbox" name="language" value="eng"> English

                                <input type="checkbox" name="language" value="hin"> Hindi

                            </td>

                        </tr>

                        <tr>

                            <td><b>Date Of Birth</b></td>

                            <td>:</td>

                            <td>

                                Date

                                <select name="dob\_day">

                                    <option value="1">1</option>

                                    <option value="2">2</option>

                                </select>

                                Month

                                <select name="dob\_month">

                                    <option value="Jan">Jan</option>

                                    <option value="Feb">Feb</option>

                                </select>

                                Year

                                <select name="dob\_year">

                                    <option value="1991">1991</option>

                                    <option value="1992">1992</option>

                                </select>

                            </td>

                        </tr>

                        <tr>

                            <td colspan="3" align="center">

                                <input type="submit" value="SUBMIT">

                            </td>

                        </tr>

                    </table>

                </td>

            </tr>

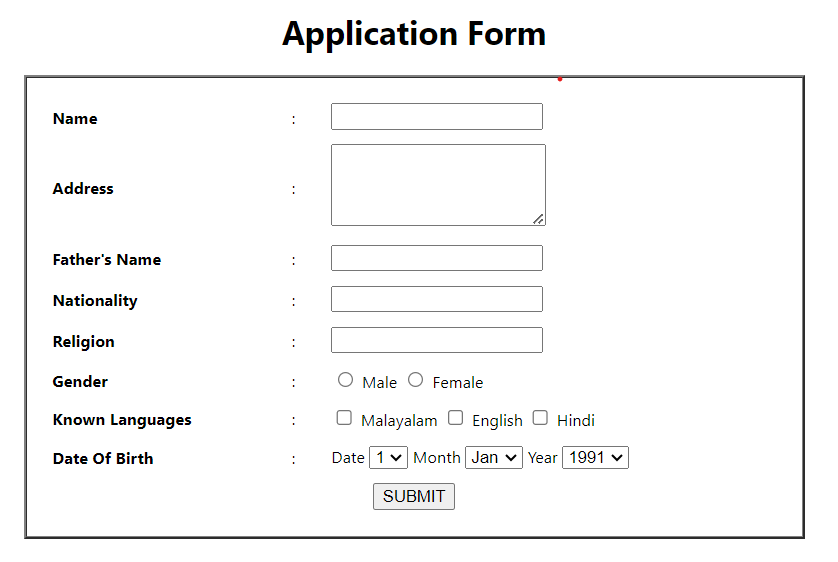
        </table>

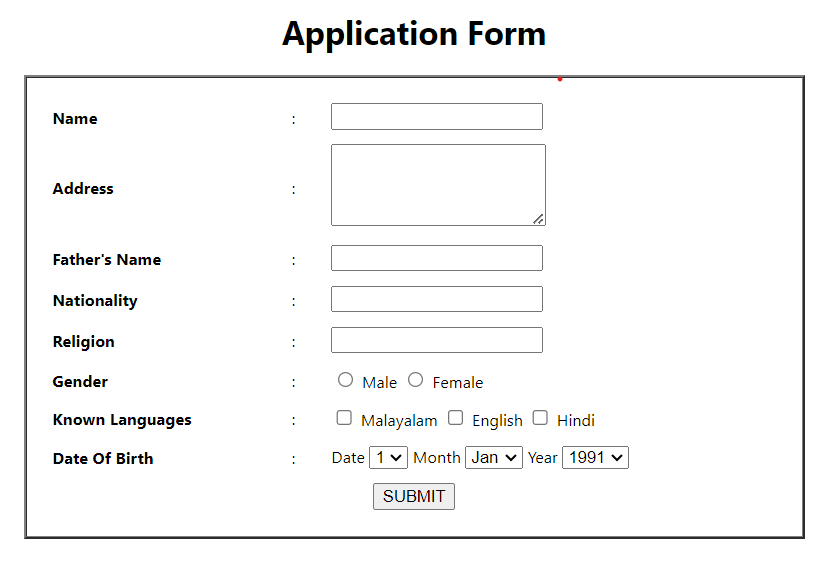
    </div>

</body>

</html>

**OUTPUT:**





**Q: Form Validation using Java Script**

<!DOCTYPE html>

<html>

<head>

    <title>Form Validation</title>

    <script>

        function validateForm() {

            var name = document.myform.name.value.trim();

            var password = document.myform.password.value.trim();

            var valid = true;

            // Reset previous error messages

            document.getElementById("nameError").innerHTML = "";

            document.getElementById("passwordError").innerHTML = "";

            // Name validation

            if (name === "") {

                document.getElementById("nameError").innerHTML = "⚠ Name can't be blank!";

                valid = false;

            } else if (!/^[a-zA-Z ]+$/.test(name)) {

                document.getElementById("nameError").innerHTML = "⚠ Name can only contain letters!";

                valid = false;

            }

            // Password validation

            if (password.length < 6) {

                document.getElementById("passwordError").innerHTML = "⚠ Password must be at least 6 characters!";

                valid = false;

            }

            return valid;  // If false, form won't submit

        }

    </script>

</head>

<body>

    <h2>Register Here</h2>

    <form name="myform" method="post" action="abc.jsp" onsubmit="return validateForm()">

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

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

        <span id="nameError" style="color: red;"></span>

        <br><br>

        <label for="password">Password:</label>

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

        <span id="passwordError" style="color: red;"></span>

        <br><br>

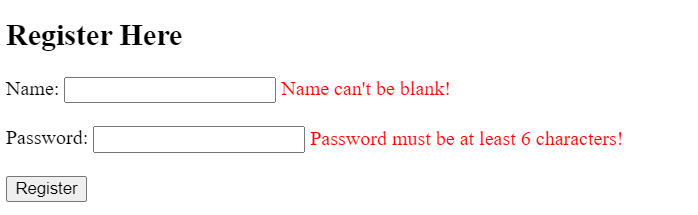
        <input type="submit" value="Register">

    </form>

</body>

</html>

**OUTPUT:**



‘

**Q: Create a web page for your college using frames, images and hyper links**

**1️) Main Page with Frames (index.html)**

<!DOCTYPE html>

<html>

<head>

    <title>College Website</title>

</head>

<frameset rows="20%,80%">

    <frame src="home.html" name="header">

    <frameset cols="30%,70%">

        <frame src="course.html" name="menu">

        <frame src="campus.html" name="content">

    </frameset>

</frameset>

</html>

**2️) College Homepage (home.html)**

<!DOCTYPE html>

<html>

<head>

    <title>College Home</title>

</head>

<body bgcolor="#FFD700">

    <h1 align="center">🎓 Gurudev Arts and Science College</h1>

    <p align="center">

        <a href="course.html" target="content">Courses</a> |

        <a href="campus.html" target="content">Campus</a> |

        <a href="rank.html" target="content">Rank Holders</a>

    </p>

    <div align="center">

        <img src="image/college.jpeg" height="auto" width="800px" alt="College Image">

    </div>

</body>

</html>

**3️) Courses Page (course.html)**

<!DOCTYPE html>

<html>

<head>

    <title>Courses</title>

</head>

<body bgcolor="#FFCCCC">

    <h2 align="center">📚 Courses Offered</h2>

    <ul>

        <li>Bachelor of Computer Applications (BCA)</li>

        <li>Bachelor of Business Administration (BBA)</li>

        <li>Bachelor of Commerce (B.Com)</li>

        <li>Bachelor of Science (B.Sc)</li>

    </ul>

</body>

</html>

**4️) Campus Page (campus.html)**

<!DOCTYPE html>

<html>

<head>

    <title>Campus</title>

</head>

<body bgcolor="#C0EFFF">

    <h2 align="center">🏫 Campus Life</h2>

    <p align="center">

        <img src="image/campus.jpg" height="500px" width="500px" alt="Campus Image">

    </p>

    <p align="center">

        <a href="https://www.gasc.ac.in/" target="\_blank">Visit Official Website</a>

    </p>

</body>

</html>

**5️) Rank Holders Page (rank.html)**

<!DOCTYPE html>

<html>

<head>

    <title>Rank Holders</title>

</head>

<body bgcolor="#E6E6FA">

    <h2 align="center">🏆 Our Rank Holders</h2>

    <table align="center" cellspacing="10">

        <tr>

            <td><img src="image/student1.png" width="130" height="130" alt="Student 1"></td>

            <td><img src="image/student2.png" width="130" height="130" alt="Student 2"></td>

            <td><img src="image/student3.png" width="130" height="130" alt="Student 3"></td>

            <!-- <td><img src="student4.jpg" width="130" height="130" alt="Student 4"></td> -->

        </tr>

        <tr align="center">

            <td>John</td>

            <td>Leone</td>

            <td>Terry</td>

            <!-- <td>Joy</td> -->

        </tr>

    </table>

</body>

</html>

**OUTPUT:**



**Q: Email Registration Form with Proper Validations**

<!DOCTYPE html>

<html>

<head>

<title>Email Registration Form</title>

<script>

function evalidation() {

let firstName = document.eform.n1.value.trim();

let lastName = document.eform.n2.value.trim();

let password = document.eform.p1.value;

let confirmPassword = document.eform.p2.value;

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

let email = document.eform.email.value.trim();

// Validate required fields

if (firstName === "" || lastName === "" || password === "" || confirmPassword === "" || !gender || email === "") {

alert("Please fill out all fields.");

return false;

}

// Validate password length

if (password.length < 6) {

alert("Password must be at least 6 characters long.");

return false;

}

// Validate password match

if (password !== confirmPassword) {

alert("Passwords do not match!");

return false;

}

// Validate email format

let emailPattern = /^[^ ]+@[^ ]+\.[a-z]{2,3}$/;

if (!email.match(emailPattern)) {

alert("Enter a valid email address!");

return false;

}

alert("Form submitted successfully!");

return true;

}

</script>

</head>

<body bgcolor="cyan">

<h2 align="center">📧 Email Registration Form</h2>

<form name="eform" onsubmit="return evalidation()">

<table align="center" cellspacing="10">

<tr>

<td>First Name:</td>

<td><input type="text" name="n1"></td>

<td>Last Name:</td>

<td><input type="text" name="n2"></td>

</tr>

<tr>

<td>Email:</td>

<td colspan="3"><input type="text" name="email"></td>

</tr>

<tr>

<td>Password:</td>

<td><input type="password" name="p1"></td>

<td>Retype Password:</td>

<td><input type="password" name="p2"></td>

</tr>

<tr>

<td>Gender:</td>

<td>

<input type="radio" name="r" value="male"> Male

<input type="radio" name="r" value="female"> Female

</td>

</tr>

<tr>

<td>Country:</td>

<td colspan="3">

<select name="con">

<option>India</option>

<option>USA</option>

<option>China</option>

<option>UAE</option>

<option>UK</option>

</select>

</td>

</tr>

<tr>

<td>Date of Birth:</td>

<td>

<select name="dob">

<script>

for (let i = 1; i <= 31; i++) {

document.write("<option>" + i + "</option>");

}

</script>

</select>

<select name="mon">

<option>JAN</option><option>FEB</option><option>MAR</option>

<option>APR</option><option>MAY</option><option>JUNE</option>

<option>JULY</option><option>AUG</option><option>SEP</option>

<option>OCT</option><option>NOV</option><option>DEC</option>

</select>

<select name="year">

<script>

for (let i = 1900; i <= 2005; i++) {

document.write("<option>" + i + "</option>");

}

</script>

</select>

</td>

</tr>

<tr>

<td colspan="4" align="center">

<input type="submit" value="Register">

</td>

</tr>

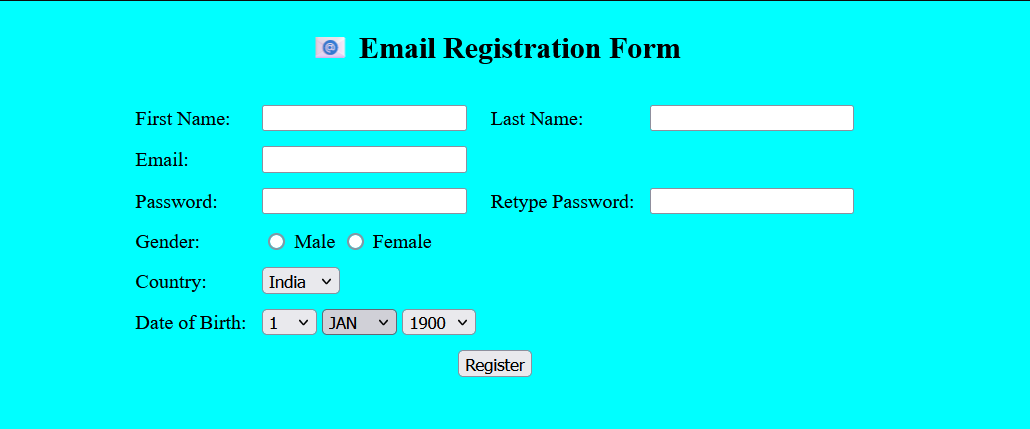
</table>

</form>

</body>

</html>

**OUTPUT:**



**Q: Write a JavaScript code using arrays**

<!DOCTYPE html>

<html>

<head>

<title>JavaScript Arrays Example</title>

<script type="text/javascript">

function arrayExample() {

// Define an array with values

const myArray = [10, 20, 30, 40, 50];

let sum = 0;

// Loop through the array and calculate sum

for (let i = 0; i < myArray.length; i++) {

sum += myArray[i];

}

// Display sum inside the webpage

document.getElementById("result").innerHTML = "Sum of array elements: " + sum;

}

</script>

</head>

<body>

<h2>JavaScript Arrays Example</h2>

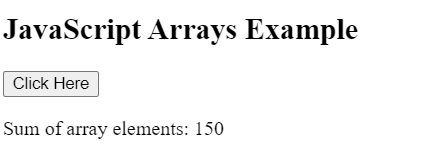
<input type="button" onclick="arrayExample()" value="Click Here">

<p id="result"></p> <!-- This will show the result -->

</body>

</html>

**OUTPUT:**



**Q:Create a web page that illustrate the onMouseOver and onMouseOut event handlers**

<!DOCTYPE html>

<html>

<head>

    <title>onMouseOver & onMouseOut Example</title>

    <script>

        function changeTextColor(element) {

            element.style.color = "red";

        }

        function resetTextColor(element) {

            element.style.color = "black";

        }

        function changeImage() {

            document.getElementById("hoverImage").src = "image/hover1.jpg";

        }

        function resetImage() {

            document.getElementById("hoverImage").src = "image/original.jpeg";

        }

    </script>

</head>

<body>

    <h2>🎨 Mouse Events Example</h2>

    <!-- Text hover effect -->

    <p onmouseover="changeTextColor(this)" onmouseout="resetTextColor(this)">

        Hover over this text to change its color.

    </p>

    <!-- Image hover effect -->

    <img id="hoverImage" src="image/original.jpeg" height="auto" width="auto"

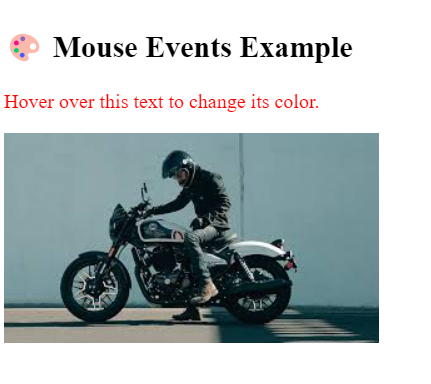
         onmouseover="changeImage()" onmouseout="resetImage()">

</body>

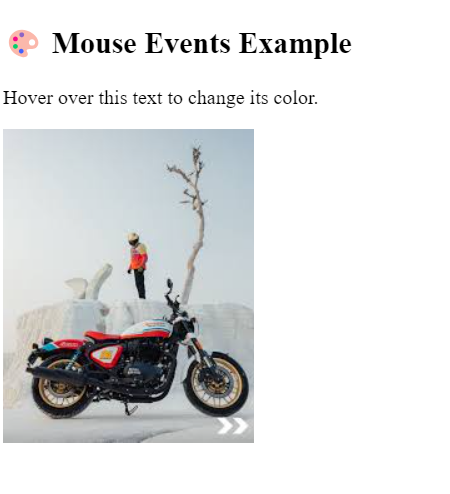
</html>

**OUTPUT:**

Before Hovering:



After Hovering:



**Q: Develop an HTML page that accepts any mathematical expression, evaluates that expression and display the result of the evaluation**

<!DOCTYPE html>

<html>

<head>

<title>Mathematical Expression Evaluator</title>

<script type="text/javascript">

function mathExp() {

let expression = document.getElementById("exptext").value;

let resultField = document.getElementById("resulttext");

try {

// Use Function() instead of eval() for safety

let result = new Function("return " + expression)();

resultField.value = result;

} catch (error) {

resultField.value = "Invalid Expression!";

}

}

</script>

</head>

<body>

<h2> Math Expression Evaluator</h2>

<form>

<table>

<tr>

<td>Expression:</td>

<td><input type="text" id="exptext"></td>

</tr>

<tr>

<td>Result:</td>

<td><input type="text" id="resulttext" readonly></td>

</tr>

<tr>

<td colspan="2"><input type="button" value="Calculate" onclick="mathExp()"></td>

</tr>

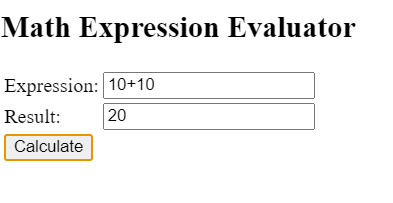
</table>

</form>

</body>

</html>

**OUTPUT:**



**Q: Write a Javascript program to display the current time**

<!DOCTYPE html>

<html>

<head>

    <title>Digital Clock</title>

    <script>

        function startClock() {

            let theTime = new Date();

            let hours = theTime.getHours();

            let minutes = theTime.getMinutes();

            let seconds = theTime.getSeconds();

            let amPm = hours >= 12 ? "PM" : "AM";

            // Convert to 12-hour format

            hours = hours % 12 || 12;

            // Add leading zeros if needed

            minutes = minutes < 10 ? "0" + minutes : minutes;

            seconds = seconds < 10 ? "0" + seconds : seconds;

            // Update time display

            document.getElementById("clockspot").innerText = hours + ":" + minutes + ":" + seconds + " " + amPm;

            // Refresh clock every second

            setTimeout(startClock, 1000);

        }

    </script>

</head>

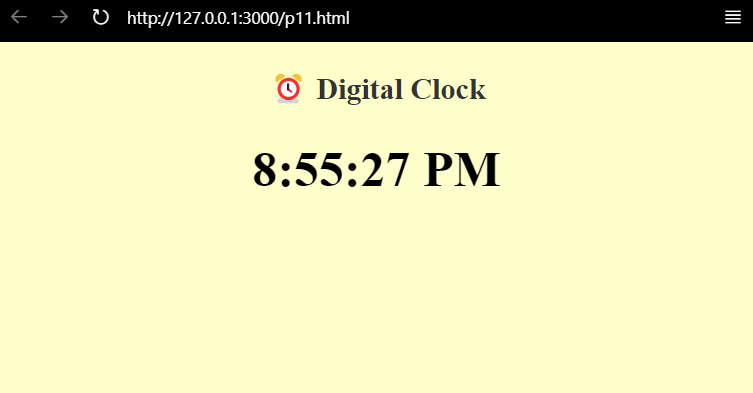
<body onload="startClock()" style="background-color: #FFFFCC; text-align: center;">

    <h2 style="color: #333;">⏰ Digital Clock</h2>

    <h1 id="clockspot" style="font-size: 40px; font-weight: bold; color: #000;"></h1>

</body>

</html>

**OUTPUT:**

**Q:Write a Javascript program to print the prime numbers within a range**

<!DOCTYPE html>

<html>

<head>

<title>Prime Numbers in a Range</title>

<script>

function isPrime(num) {

if (num < 2) return false;

if (num === 2) return true;

if (num % 2 === 0) return false;

let sqrtNum = Math.sqrt(num);

for (let i = 3; i <= sqrtNum; i += 2) {

if (num % i === 0) return false;

}

return true;

}

function primeNumbers() {

let n = document.getElementById("primeText").value;

let displayArea = document.getElementById("primeArea");

let result = "";

// Validate input

if (isNaN(n) || n < 2) {

displayArea.value = "Please enter a valid number greater than or equal to 2.";

return;

}

// Convert input to integer

n = parseInt(n);

// Generate prime numbers

for (let p = 2; p <= n; p++) {

if (isPrime(p)) {

result += p + " ";

}

}

// Display result

displayArea.value = result || "No prime numbers found.";

}

</script>

</head>

<body style="text-align: center; font-family: Arial, sans-serif; background-color: #f0f8ff;">

<h2>🔢 Prime Numbers Generator</h2>

<p>Enter a number to display all prime numbers up to that number:</p>

<input type="text" id="primeText" placeholder="Enter a number">

<button onclick="primeNumbers()">Find Primes</button>

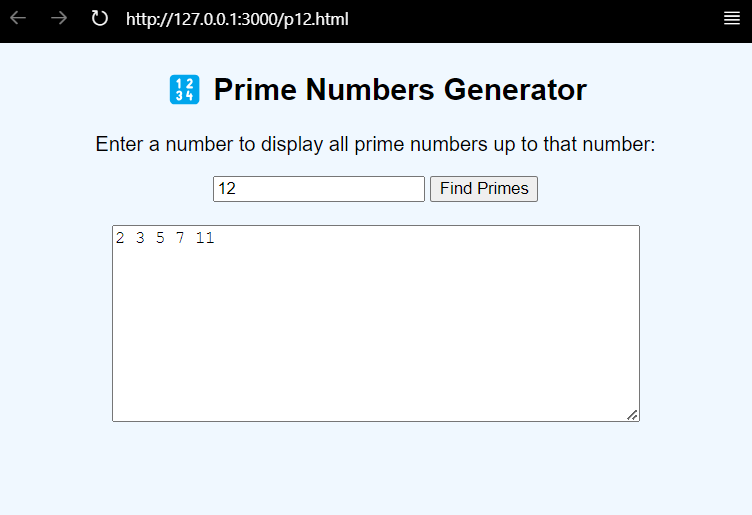
<br><br>

<textarea id="primeArea" rows="10" cols="50" readonly></textarea>

</body>

</html>

**OUTPUT:**



**Q: Write a JavaScript program to show the working of alert()**

<!DOCTYPE html>

<html>

<head>

<title>JavaScript Alert Box</title>

<script>

function showAlert() {

alert("You clicked the button! JavaScript alert box is working.");

}

</script>

</head>

<body style="background-color: #FFFFCC; text-align: center; font-family: Arial, sans-serif;">

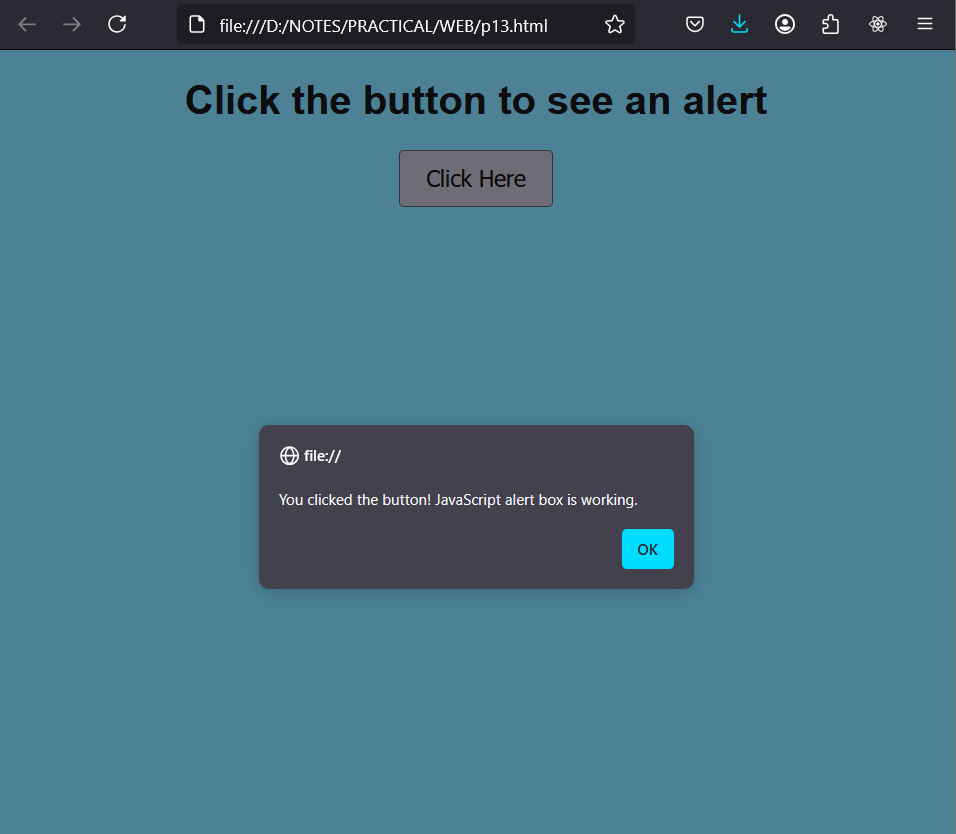
<h1> Click the button to see an alert</h1>

<button onclick="showAlert()" style="padding: 10px 20px; font-size: 18px; cursor: pointer;">Click Here</button>

</body>

</html>

**OUTPUT:**

’

**Q:** **Write a JavaScript program to find the factorial of a number.**

<!DOCTYPE html>

<html>

<head>

    <title>Factorial Calculator</title>

    <script>

        function calculateFactorial() {

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

            let resultArea = document.getElementById("result");

            // Validate input

            if (isNaN(num) || num < 0 || num.trim() === "") {

                resultArea.innerText = "❌ Please enter a valid non-negative number.";

                return;

            }

            num = parseInt(num);

            let fact = 1;

            // Calculate factorial

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

                fact \*= i;

            }

            // Display result

            resultArea.innerText = `✅ Factorial of ${num} is: ${fact}`;

        }

    </script>

</head>

<body style="text-align: center; font-family: Arial, sans-serif; background-color: #f0f8ff;">

    <h2>🔢 Factorial Calculator</h2>

    <label>Enter a Number: </label>

    <input type="text" id="num" placeholder="Enter a number">

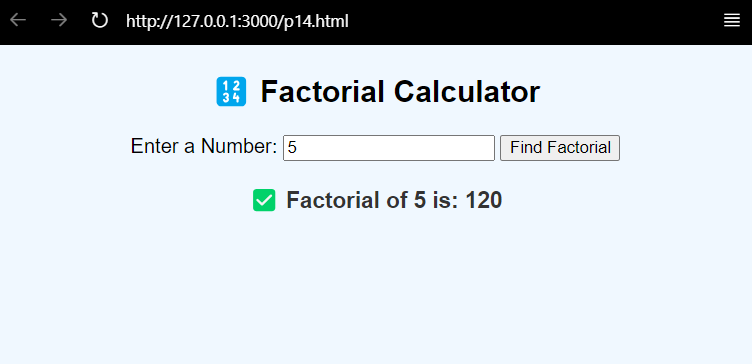
    <button onclick="calculateFactorial()">Find Factorial</button>

    <p id="result" style="font-size: 18px; font-weight: bold; color: #333;"></p>

</body>

</html>

**OUTPUT:**



**Q:** **Form Processing using PHP**

<!DOCTYPE HTML>

<html>

<head>

    <title>PHP Form Processing Example</title>

</head>

<body>

    <h2>PHP Form Processing Example</h2>

    <?php

    // Define variables and set to empty values

    $name = $email = $gender = $comment = $website = "";

    if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

        $name = test\_input($\_POST["name"]);

        $email = test\_input($\_POST["email"]);

        $website = test\_input($\_POST["website"]);

        $comment = test\_input($\_POST["comment"]);

        $gender = test\_input($\_POST["gender"]);

    }

    function test\_input($data) {

        $data = trim($data);

        $data = stripslashes($data);

        $data = htmlspecialchars($data);

        return $data;

    }

    ?>

    <form method="post">

        Name: <input type="text" name="name">

        <br><br>

        E-mail: <input type="text" name="email">

        <br><br>

        Website: <input type="text" name="website">

        <br><br>

        Comment: <textarea name="comment" rows="5" cols="40"></textarea>

        <br><br>

        Gender:

        <input type="radio" name="gender" value="female">Female

        <input type="radio" name="gender" value="male">Male

        <br><br>

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

    </form>

    <?php

    echo "<h2>Your Input:</h2>";

    echo $name;

    echo "<br>";

    echo $email;

    echo "<br>";

    echo $website;

    echo "<br>";

    echo $comment;

    echo "<br>";

    echo $gender;

    ?>

</body>

</html>

**OUTPUT:**

D:\NOTES\PRACTICAL\WEB\p15>php -S localhost:8000

[Sat Feb 15 21:52:26 2025] PHP 8.4.4 Development Server (http://localhost:8000) started

[Sat Feb 15 21:52:49 2025] [::1]:60795 Accepted

[Sat Feb 15 21:52:49 2025] [::1]:60796 Accepted

[Sat Feb 15 21:52:49 2025] [::1]:60795 [200]: GET /form.php

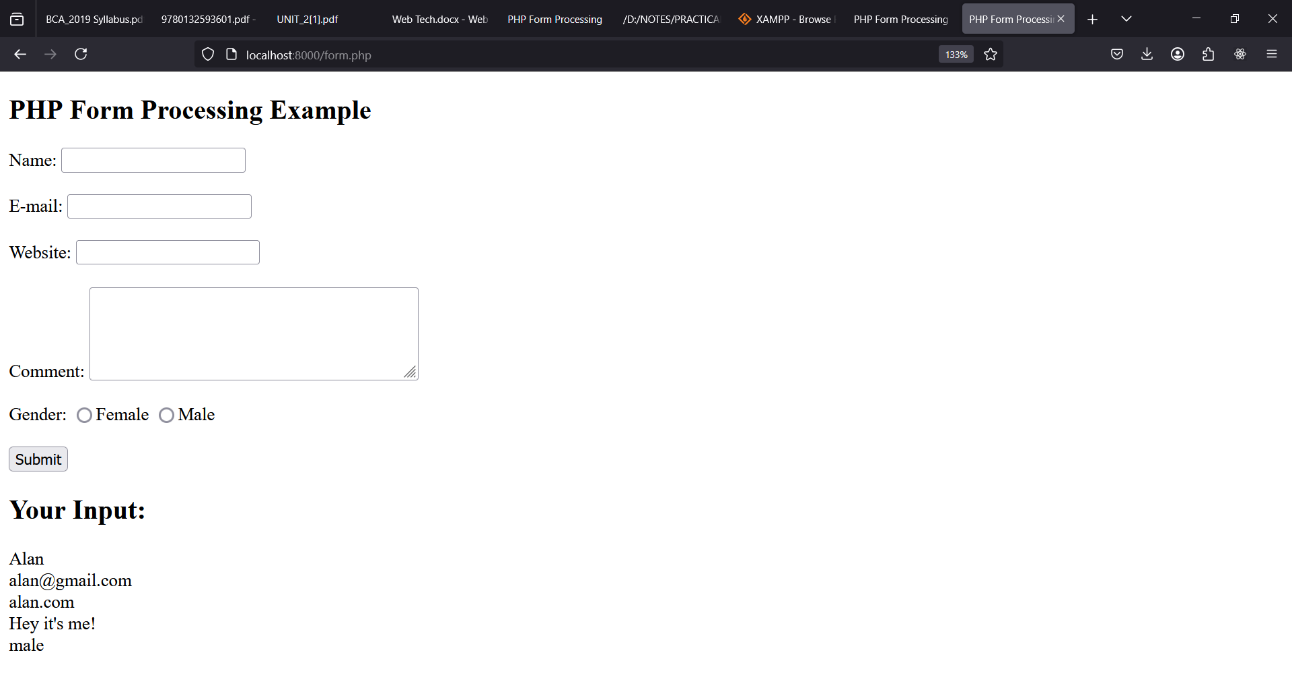
[Sat Feb 15 21:52:49 2025] [::1]:60795 Closing

[Sat Feb 15 21:52:49 2025] [::1]:60796 [404]: GET /favicon.ico - No such file or directory

[Sat Feb 15 21:52:49 2025] [::1]:60796 Closing

[Sat Feb 15 21:53:43 2025] [::1]:60807 Accepted

[Sat Feb 15 21:53:43 2025] [::1]:60807 [200]: POST /form.php

[Sat Feb 15 21:53:43 2025] [::1]:60807 Closing

**Q:** **Form validation using PHP**

<!DOCTYPE HTML>

<html>

<head>

    <title>PHP Form Validation</title>

    <style>

        .error { color: #FF0000; }

        body { font-family: Arial, sans-serif; text-align: center; background-color: #f4f4f4; }

        form { background: #fff; padding: 20px; border-radius: 10px; display: inline-block; box-shadow: 0 0 10px #aaa; text-align: left; }

    </style>

</head>

<body>

<?php

// Define variables and set to empty values

$nameErr = $emailErr = $genderErr = $websiteErr = "";

$name = $email = $gender = $comment = $website = "";

if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

    if (empty($\_POST["name"])) {

        $nameErr = "⚠ Name is required";

    } else {

        $name = test\_input($\_POST["name"]);

        // Check if name contains only letters and whitespace

        if (!preg\_match("/^[a-zA-Z ]\*$/", $name)) {

            $nameErr = "⚠ Only letters and spaces allowed";

        }

    }

    if (empty($\_POST["email"])) {

        $emailErr = "⚠ Email is required";

    } else {

        $email = test\_input($\_POST["email"]);

        // Check if email format is valid

        if (!filter\_var($email, FILTER\_VALIDATE\_EMAIL)) {

            $emailErr = "⚠ Invalid email format";

        }

    }

    if (!empty($\_POST["website"])) {

        $website = test\_input($\_POST["website"]);

        // Validate URL format

        if (!preg\_match("/\b(?:https?:\/\/|www\.)[-a-zA-Z0-9@:%.\_+~#=]{1,256}\.[a-z]{2,6}\b/i", $website)) {

            $websiteErr = "⚠ Invalid URL format";

        }

    } else {

        $website = "";

    }

    $comment = test\_input($\_POST["comment"]);

    if (empty($\_POST["gender"])) {

        $genderErr = "⚠ Gender is required";

    } else {

        $gender = test\_input($\_POST["gender"]);

    }

}

// Function to sanitize input data

function test\_input($data) {

    return htmlspecialchars(stripslashes(trim($data)));

}

?>

<h2>📝 PHP Form Validation Example</h2>

<p><span class="error">\* Required field.</span></p>

<form method="post" action="<?php echo htmlspecialchars($\_SERVER["PHP\_SELF"]); ?>">

    <label>Name:</label>

    <input type="text" name="name" value="<?php echo $name; ?>">

    <span class="error">\* <?php echo $nameErr; ?></span>

    <br><br>

    <label>Email:</label>

    <input type="text" name="email" value="<?php echo $email; ?>">

    <span class="error">\* <?php echo $emailErr; ?></span>

    <br><br>

    <label>Website:</label>

    <input type="text" name="website" value="<?php echo $website; ?>">

    <span class="error"><?php echo $websiteErr; ?></span>

    <br><br>

    <label>Comment:</label>

    <textarea name="comment" rows="5" cols="40"><?php echo $comment; ?></textarea>

    <br><br>

    <label>Gender:</label>

    <input type="radio" name="gender" value="Female" <?php if ($gender == "Female") echo "checked"; ?>> Female

    <input type="radio" name="gender" value="Male" <?php if ($gender == "Male") echo "checked"; ?>> Male

    <span class="error">\* <?php echo $genderErr; ?></span>

    <br><br>

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

</form>

<?php

// Display results only if there are no validation errors

if ($\_SERVER["REQUEST\_METHOD"] == "POST" && !$nameErr && !$emailErr && !$websiteErr && !$genderErr) {

    echo "<h2>✅ Your Input:</h2>";

    echo "Name: $name <br>";

    echo "Email: $email <br>";

    echo "Website: " . ($website ? $website : "N/A") . "<br>";

    echo "Comment: $comment <br>";

    echo "Gender: $gender <br>";

}

?>

</body>

</html>

**OUTPUT:**

D:\NOTES\PRACTICAL\WEB>php -S localhost:8000

[Sat Feb 15 22:04:20 2025] PHP 8.4.4 Development Server (http://localhost:8000) started

[Sat Feb 15 22:04:42 2025] [::1]:54970 Accepted

[Sat Feb 15 22:04:42 2025] [::1]:54970 [404]: GET / - No such file or directory

[Sat Feb 15 22:04:42 2025] [::1]:54970 Closing

[Sat Feb 15 22:04:42 2025] [::1]:54971 Accepted

[Sat Feb 15 22:04:43 2025] [::1]:54972 Accepted

[Sat Feb 15 22:04:48 2025] [::1]:54971 Closed without sending a request; it was probably just an unused speculative preconnection

[Sat Feb 15 22:04:48 2025] [::1]:54971 Closing

[Sat Feb 15 22:04:49 2025] [::1]:54972 Closed without sending a request; it was probably just an unused speculative preconnection

[Sat Feb 15 22:04:49 2025] [::1]:54972 Closing

[Sat Feb 15 22:04:51 2025] [::1]:54976 Accepted

[Sat Feb 15 22:04:51 2025] [::1]:54977 Accepted

[Sat Feb 15 22:04:51 2025] [::1]:54977 [404]: GET /p16,php - No such file or directory

[Sat Feb 15 22:04:51 2025] [::1]:54977 Closing

[Sat Feb 15 22:04:56 2025] [::1]:54976 [200]: GET /p16.php

[Sat Feb 15 22:04:56 2025] [::1]:54976 Closing

[Sat Feb 15 22:06:21 2025] [::1]:54987 Accepted

[Sat Feb 15 22:06:21 2025] [::1]:54987 [200]: POST /p16.php

[Sat Feb 15 22:06:21 2025] [::1]:54987 Closing

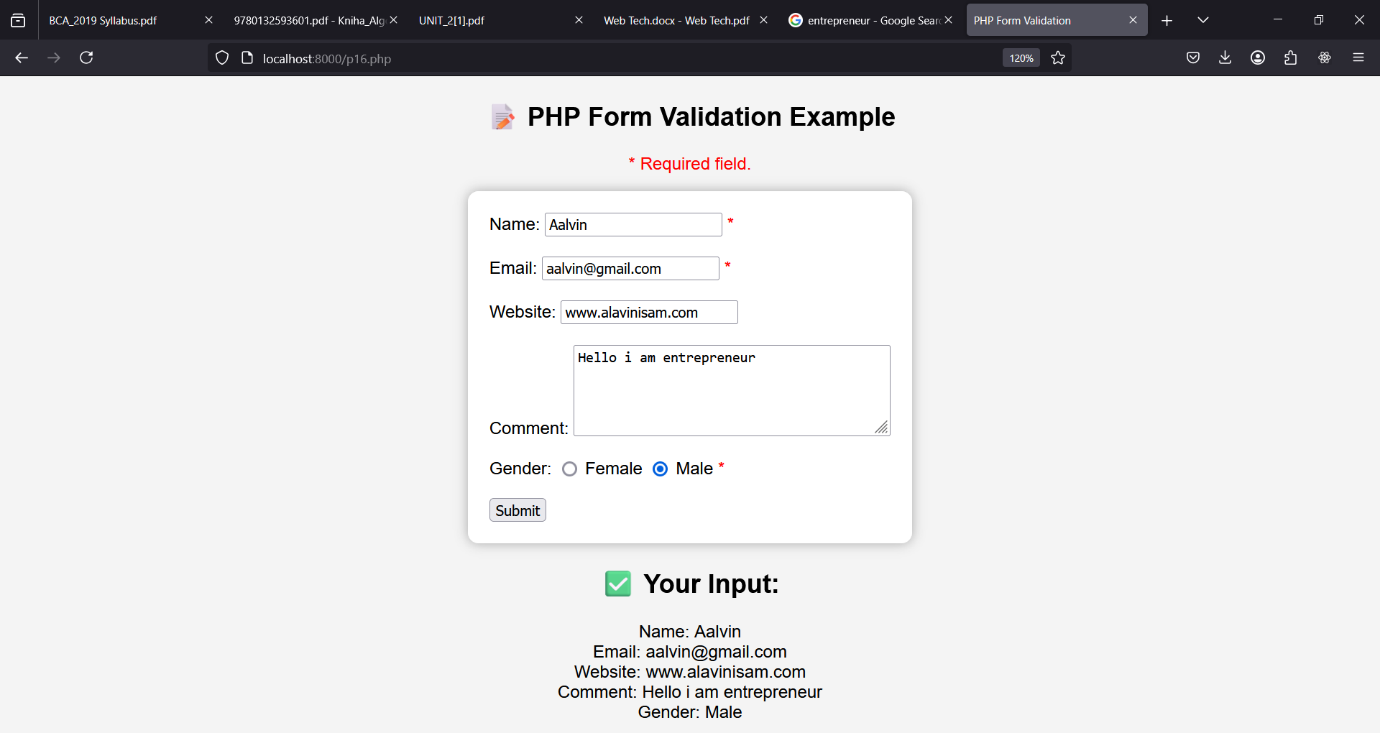
[Sat Feb 15 22:06:30 2025] [::1]:54990 Accepted

[Sat Feb 15 22:06:30 2025] [::1]:54990 [200]: POST /p16.php

[Sat Feb 15 22:06:30 2025] [::1]:54990 Closing

[Sat Feb 15 22:06:47 2025] [::1]:54993 Accepted

[Sat Feb 15 22:06:47 2025] [::1]:54993 [200]: POST /p16.php

[Sat Feb 15 22:06:47 2025] [::1]:54993 Closing

**Q:** **Storing data in MYSQL using PHP**

<!DOCTYPE html>

<html>

<head>

    <title>Student Data</title>

    <style>

        table, th, td {

            border: 1px solid black;

            border-collapse: collapse;

            padding: 8px;

            text-align: left;

        }

        table {

            width: 50%;

            margin: 20px auto;

            border-radius: 5px;

            box-shadow: 0 0 10px #aaa;

        }

        th {

            background: #f2f2f2;

        }

    </style>

</head>

<body>

<h2 style="text-align: center;">📋 Student List</h2>

<?php

// Database connection details

$servername = "localhost";

$username = "root";

$password = "Mysql";

$dbname = "college";

// Create connection

$conn = new mysqli($servername, $username, $password, $dbname);

// Check connection

if ($conn->connect\_error) {

    die("<p style='color: red; text-align: center;'>❌ Connection failed: " . $conn->connect\_error . "</p>");

}

// Fetch data from the database

$sql = "SELECT id, firstname, lastname FROM demo";

$result = $conn->query($sql);

// Display data in a table

if ($result->num\_rows > 0) {

    echo "<table align='center'>

            <tr>

                <th>ID</th>

                <th>Name</th>

            </tr>";

    while ($row = $result->fetch\_assoc()) {

        echo "<tr>

                <td>" . htmlspecialchars($row["id"]) . "</td>

                <td>" . htmlspecialchars($row["firstname"]) . " " . htmlspecialchars($row["lastname"]) . "</td>

              </tr>";

    }

    echo "</table>";

} else {

    echo "<p style='text-align: center; color: red;'>⚠ No results found.</p>";

}

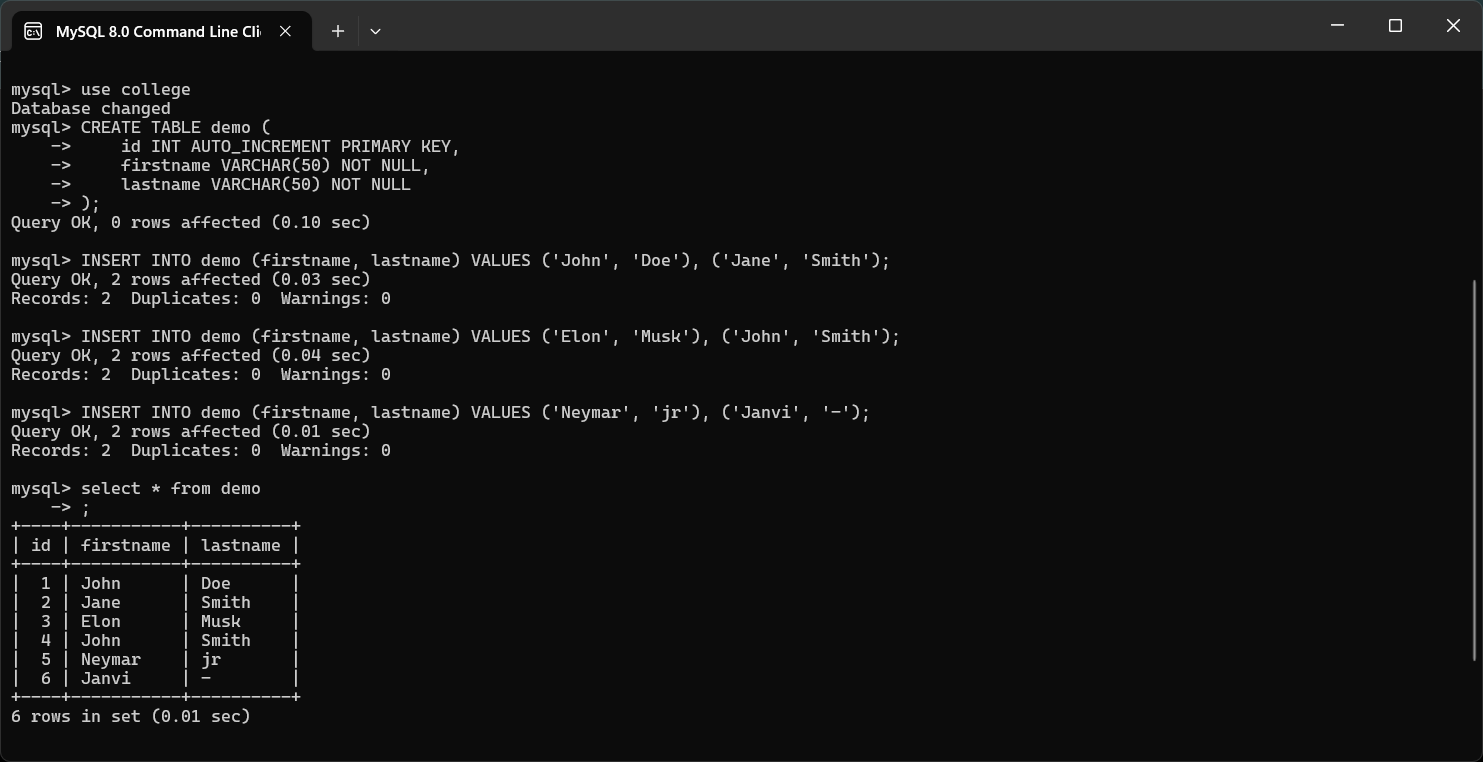
// Close the connection

$conn->close();

?>

</body>

</html>

**OUTPUT:**

