

- 1) Create a form with the elements of Textboxes, Radio buttons, Checkboxes, and so on. Write JavaScript code to validate the format in email, and mobile number in 10 characters, If a textbox has been left empty, popup an alert indicating when email, mobile number and textbox has been left empty.

```
<!DOCTYPE html>

<html>

<head>

<title>Form Validation</title>


<script>

function validateForm() {

    let name = document.forms["myForm"]["name"].value.trim();

    let email = document.forms["myForm"]["email"].value.trim();

    let mobile = document.forms["myForm"]["mobile"].value.trim();

    // Check empty fields

    if (name === "" || email === "" || mobile === "") {

        alert("Please fill out all required fields (Name, Email, Mobile Number).");

        return false;

    }

    // Validate Email

    let emailPattern = /^[a-zA-Z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,4}$/;

    if (!emailPattern.test(email)) {

        alert("Please enter a valid email address.");

        return false;

    }

    // Validate Mobile Number (only digits, 10 characters)

    let mobilePattern = /^\d{10}$/;

    if (!mobilePattern.test(mobile)) {

        alert("Mobile number must be exactly 10 digits.");

        return false;

    }

    alert("Form submitted successfully!");

    return true;

}
```

```
</script>
</head>
<body>
  <h2>Registration Form</h2>
  <form name="myForm" onsubmit="return validateForm()">
    <label for="name">Name:</label><br>
    <input type="text" id="name" name="name"><br><br>

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

    <label for="mobile">Mobile Number:</label><br>
    <input type="text" id="mobile" name="mobile"><br><br>

    <label>Gender:</label><br>
    <input type="radio" name="gender" value="Male"> Male<br>
    <input type="radio" name="gender" value="Female"> Female<br><br>

    <label>Hobbies:</label><br>
    <input type="checkbox" name="hobby1" value="Reading"> Reading<br>
    <input type="checkbox" name="hobby2" value="Music"> Music<br>
    <input type="checkbox" name="hobby3" value="Sports"> Sports<br><br>

    <input type="submit" value="Submit">
  </form>
</body>
</html>
```

2. Develop an HTML Form, which accepts any Mathematical expression. Write JavaScript code to Evaluate the expression and Display the result.

```
<!DOCTYPE html>

<html>

<head>

<title>Math Expression Evaluator</title>

<script>

function evaluateExpression() {

    const expression = document.getElementById("mathExpr").value;

    let result;

    try {

        // Evaluate the expression

        result = eval(expression);

        document.getElementById("result").innerText = "Result: " + result;

    } catch (error)

    {

        document.getElementById("result").innerText = "Invalid Expression!";

    }

}

</script>

</head>

<br><br>

<center>

<div style="border: solid black; max-width: 500px; background-color: rgba(105, 244, 198, 0.617);">

    <body>

        <h2>Mathematical Expression Evaluator</h2>

        <form onsubmit="event.preventDefault(); evaluateExpression();">

            <label for="mathExpr">Enter Expression:</label>

            <input type="text" id="mathExpr" name="mathExpr" required placeholder="e.g. 3 + 4 * (2 - 1)">

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

        </form>

        <p id="result"></p>

    </body>

</div>

</div>
```

```
</center>
</html>
```

3) Create a page with dynamic effects. Write the code to include layers and basic animation.

```
<html>
<head>
  <title>Basic Animation of Ball</title>
  <style>
    #layer1 {position:absolute;top:50px;left:50px;}
    #layer2 {position:absolute;top:50px;left:150px;}
    #layer3 {position:absolute;top:50px;left:250px;}
  </style>
  <script type="text/javascript">
    function moveBall(layer)
    {
      var top=window.prompt("Enter the top value");
      var left=window.prompt("Enter the left value");
      document.getElementById(layer).style.top=top+'px';
      document.getElementById(layer).style.left=left+'px';
    }
  </script>
</head>
<body>
  <div id="layer1"></div>
  <div id="layer2"></div>
  <div id="layer3"></div>
</body>
```

</html>

4) Write a JavaScript code to find the sum of N natural Numbers. (Use user- defined function)

<!DOCTYPE html>

<html>

<head>

<title>Sum of N Natural Numbers</title>

<script>

```
function sumNaturalNumbers(n) {
```

```
    let sum = 0;
```

```
    for (let i = 1; i <= n; i++) {
```

```
        sum += i;
```

```
    }
```

```
    return sum;
```

```
}
```

```
function calculateSum() {
```

```
    let n = parseInt(document.getElementById("number").value);
```

```
    if (isNaN(n) || n <= 0) {
```

```
        document.getElementById("result").innerText = "Please enter a positive number.";
```

```
        return;
```

```
    }
```

```
    let total = sumNaturalNumbers(n);
```

```
document.getElementById("result").innerText = "Sum of first " + n + " natural numbers  
is: " + total;
```

```
}
```

```
</script>
```

```
</head>
```

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

```
<h2>Sum of N Natural Numbers</h2>
```

```
<label for="number">Enter N:</label>
```

```
<input type="number" id="number" min="1">
```

```
<button onclick="calculateSum()">Find Sum</button>
```

```
<p id="result"></p>
```

```
</body>
```

```
</html>
```

5) Write a JavaScript code block using arrays and generate the current date in words, this should include the day, month and year.

```
<!DOCTYPE html>

<html>

<head>

  <title>Date in Words</title>

  <script>

    function showDate() {

      let days =
["Sunday","Monday","Tuesday","Wednesday","Thursday","Friday","Saturday"];

      let months =
["January","February","March","April","May","June","July","August","September","October",
"November","December"];

      let d = new Date();

      document.getElementById("result").innerHTML =

        "Today is " + days[d.getDay()] + ", " + d.getDate() + " " + months[d.getMonth()] + " " +
d.getFullYear();

    }

  </script>

</head>

<body onload="showDate()" style="text-align:center; font-family: Arial; background-color:
#e3fbff;">

  <h2>Current Date in Words</h2>

  <p id="result" style="font-size: 20px; color: darkblue;"></p>

</body>
```

</html>

6) Create a form for Student information. Write JavaScript code to find Total, Average, Result and Grade.

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Student Info</title>
```

```
</head>
```

```
<body>
```

```
<div>
```

```
  <h3>Student Info</h3>
```

```
  <input type="text" id="name" placeholder="Name"><br><br>
```

```
  <input type="text" id="roll" placeholder="Roll No"><br><br>
```

```
  <input type="number" id="sub1" placeholder="Subject 1"><br><br>
```

```
  <input type="number" id="sub2" placeholder="Subject 2"><br><br>
```

```
  <input type="number" id="sub3" placeholder="Subject 3"><br><br>
```

```
  <input type="number" id="sub4" placeholder="Subject 4"><br><br>
```

```
  <input type="number" id="sub5" placeholder="Subject 5"><br><br>
```

```
  <button onclick="calc()">Calculate</button><br><br>
```

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

```
</div>
```

```
<script>
```

```
function calc() {
```

```
  let name = document.getElementById("name").value;
```

```
  let roll = document.getElementById("roll").value;
```

```
  let marks = [1,2,3,4,5].map(i => Number(document.getElementById("sub"+i).value));
```



```
let total = marks.reduce((a,b)=>a+b,0);  
let avg = total / marks.length;  
let result = marks.every(m => m>=35) ? "Pass" : "Fail";
```

```
let grade = "No Grade";  
if(result=="Pass"){  
    if(avg>=90) grade="A+";  
    else if(avg>=80) grade="A";  
    else if(avg>=70) grade="B";  
    else if(avg>=60) grade="C";  
    else if(avg>=50) grade="D";  
    else grade="E";  
}
```

```
document.getElementById("out").innerHTML = `  
    <b>Name:</b> ${name} <br>  
    <b>Roll:</b> ${roll} <br>  
    <b>Total:</b> ${total} <br>  
    <b>Average:</b> ${avg.toFixed(2)} <br>  
    <b>Result:</b> ${result} <br>  
    <b>Grade:</b> ${grade}  
    `;  
}  
</script>
```

</body>

</html>

7) Create a form for Employee information. Write JavaScript code to find DA, HRA, PF, TAX, Gross pay, Deduction and Net pay.

<!DOCTYPE html>

```
<html>

<head>

  <title>Employee Info</title>

</head>

<body>


<div>

  <h3>Employee Info</h3>

  <input type="text" id="ename" placeholder="Employee Name" required><br><br>

  <input type="text" id="eid" placeholder="Employee ID" required><br><br>

  <input type="number" id="basic" placeholder="Basic Salary" min="0" required><br><br>

  <button onclick="calc()">Calculate</button><br><br>

  <div id="out" style="color:blue; font-family:Arial; font-size:14px;"></div>

</div>


<script>

function calc() {

  let name = document.getElementById("ename").value.trim();

  let id = document.getElementById("eid").value.trim();

  let basicInput = document.getElementById("basic").value;

  if (!name || !id || !basicInput) {

    document.getElementById("out").innerHTML = "<b style='color:red'> Please fill all fields!</b>";

    return;

  }

  let basic = Number(basicInput);

  let DA = basic * 0.40;

  let HRA = basic * 0.20;

  let PF = basic * 0.12;

  let TAX = basic * 0.10;
```

```

let gross = basic + DA + HRA;

let ded = PF + TAX;

let net = gross - ded;


const fmt = new Intl.NumberFormat('en-IN', { style: 'currency', currency: 'INR' });


document.getElementById("out").innerHTML = `
    <b>Name:</b> ${name}<br>
    <b>ID:</b> ${id}<br>
    <b>Basic:</b> ${fmt.format(basic)}<br>
    DA: ${fmt.format(DA)}, HRA: ${fmt.format(HRA)}<br>
    PF: ${fmt.format(PF)}, TAX: ${fmt.format(TAX)}<br>
    <b>Gross:</b> ${fmt.format(gross)}<br>
    <b>Deduction:</b> ${fmt.format(ded)}<br>
    <b>Net Pay:</b> ${fmt.format(net)}
`;
}
</script>

</body>

</html>

```

8) Write a program in PHP to change background color based on day of the week using if else if statements and using arrays.

```

<!DOCTYPE html>

<html>

<head>

    <title>Color Change by Day</title>

    <?php

        // Array of days with their respective background colors

```

```

$daysOfWeek = array(
    'Sunday' => 'red',
    'Monday' => 'green',
    'Tuesday' => 'blue',
    'Wednesday' => 'yellow',
    'Thursday' => 'brown',
    'Friday' => 'cyan',
    'Saturday' => 'orange'
);

// Get the current day
$currentDay = date('l'); // 'l' (lowercase L) gives full day name like Monday, Tuesday
$backgroundColor = "#FFFFFF"; // Default color

// If today exists in array, use its color
if (array_key_exists($currentDay, $daysOfWeek)) {
    $backgroundColor = $daysOfWeek[$currentDay];
}
?>

<style>
    body {
        background-color: <?php echo $backgroundColor; ?>;
    }
</style>
</head>
<body>
    <h1>Welcome! Today is <?php echo $currentDay; ?>.</h1>
</body>
</html>

```

9) Write a simple program in PHP for i) generating Prime number ii) generate Fibonacci series.

```
<?php
```

```
// Function to generate Prime numbers
```

```
function generatePrimes($maxNumber) {  
    echo "Prime numbers up to $maxNumber: ";  
    for ($number = 2; $number <= $maxNumber; $number++) {  
        $isPrime = true;  
        for ($i = 2; $i <= sqrt($number); $i++) {  
            if ($number % $i == 0) {  
                $isPrime = false;  
                break;  
            }  
        }  
        if ($isPrime) {  
            echo $number . " ";  
        }  
    }  
    echo "<br>";  
}
```

```
// Function to generate Fibonacci series
```

```
function fibonacciSeries($numTerms) {  
    $first = 0;  
    $second = 1;  
  
    echo "Fibonacci Series ($numTerms terms): ";  
    for ($i = 0; $i < $numTerms; $i++) {  
        echo $first . " ";  
        $next = $first + $second;  
        $first = $second;  
        $second = $next;  
    }  
    echo "<br>";  
}
```

```
// Call the functions with desired parameters

generatePrimes(50);    // Generate prime numbers up to 50

fibonacciSeries(10);  // Generate 10 terms of the Fibonacci series

?>
```

10) Write a PHP program to remove duplicates from a sorted list

```
<?php
// Function to remove duplicates from a sorted array
function removeDuplicates($array) {
    $result = array_values(array_unique($array));
    return $result;
}

// Example sorted list
$sortedlist = [1, 1, 2, 2, 3, 3, 4, 5, 5];

echo "Original List: ";
print_r($sortedlist);

$uniquelist = removeDuplicates($sortedlist);

echo "<br>Unique List: ";
print_r($uniquelist);
?>
```

11) Write a PHP Script to print the following pattern on the Screen:

```
*****
****
***
**
*
```

```
<?php
// Total number of rows
$rows = 5;

for ($i = $rows; $i > 0; $i--) {

    // Printing leading spaces
    for ($j = $rows - $i; $j > 0; $j--) {
        echo "&nbsp;"; // space before stars
    }

    // Printing stars with space
    for ($k = 0; $k < $i; $k++) {
        echo "* ";
    }
}
```

```
// Move to next line
echo "<br>";
}
?>
```

12. PHP Program for Searching Data by Different Criteria

```
<?php
```

```
// Sample data array
```

```
$data = [
    ['id' => 1, 'name' => 'Srikanth', 'age' => 30],
    ['id' => 2, 'name' => 'Srinath', 'age' => 35],
    ['id' => 3, 'name' => 'Srinivas', 'age' => 50],
    ['id' => 4, 'name' => 'Smayan', 'age' => 45],
    ['id' => 5, 'name' => 'Saatvik', 'age' => 50]
];
```

```
// Function to search by criteria
```

```
function searchByCriteria($data, $criteria) {
    $results = [];
    foreach ($data as $entry) {
        $match = true;
        foreach ($criteria as $key => $value) {
            if (!isset($entry[$key]) || $entry[$key] != $value) {
                $match = false;
                break;
            }
        }
        if ($match) {
            $results[] = $entry;
        }
    }
}
```

```

    }
}
return $results;
}
// Search criteria
$criteria = ['age' => 50];
// Execute search
$searchResults = searchByCriteria($data, $criteria);
// Display results
echo "Search Results:<br>";
print_r($searchResults);
?>

```

13. PHP Function to Generate CAPTCHA Code

```

<?php
session_start();

function generateCaptchaCode($length = 6) {
    $characters =
'0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ
WXYZ';

    $charactersLength = strlen($characters);
    $randomString = "";
    for ($i = 0; $i < $length; $i++) {
        $randomString .= $characters[rand(0, $charactersLength - 1)];
    }
    return $randomString;
}

// Display CAPTCHA code

```



```
echo "Captcha Code is : " . generateCaptchaCode();  
?>
```

Experiment 14: Read and Write File Using Form Controls

```
<!DOCTYPE html>  
  
<html>  
  
<head>  
  
    <title>File Read and Write</title>  
  
</head>  
  
<body>  
  
    <form action="" method="post">  
  
        <label for="userdata">Enter text:</label><br>  
  
        <textarea name="userdata" id="userdata" rows="4" cols="40"></textarea><br>  
  
        <input type="submit" name="write" value="Write to file">  
  
    </form>  
  
    <br>  
  
    <form action="" method="post" enctype="multipart/form-data">  
  
        <label for="filedata">Upload file to read contents:</label><br>  
  
        <input type="file" name="filedata" id="filedata"><br>  
  
        <input type="submit" name="read" value="Read File Content">  
  
    </form>  
  
  
<?php  
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
    // Logic for writing text to file  
    if (isset($_POST['write']) && !empty($_POST["userdata"])) {  
        $data = $_POST["userdata"];  
  
        file_put_contents("output.txt", $data);  
  
        echo "Data written to file.<br>";  
    }  
  
    // Logic for reading uploaded file
```

```

if (isset($_POST['read']) && isset($_FILES["filedata"])) {
    if (is_uploaded_file($_FILES["filedata"]["tmp_name"])) {
        $file_content = file_get_contents($_FILES["filedata"]["tmp_name"]);
        echo "<strong>File Contents:</strong><br>";
        echo htmlspecialchars($file_content) . "<br>";
    } else {
        echo "No file uploaded.<br>";
    }
}
}
?>
</body>
</html>

```

Experiment 15: Program in PHP to Validate Input Field

```

<!DOCTYPE html>
<html>
<head>
    <title>Form Validation</title>
</head>
<body>
    <form method="post" action="">
        Name: <input type="text" name="name"><br>
        Email: <input type="text" name="email"><br>
        <input type="submit" name="submit" value="Submit">
    </form>

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST['name'];
    $email = $_POST['email'];

    // Validate Name

```

```

if (empty($name)) {
    echo "Name is required.<br>";
} else {
    echo "Name: " . htmlspecialchars($name) . "<br>";
}

// Validate Email
if (empty($email)) {
    echo "Email is required.<br>";
} else {
    if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
        echo "Invalid email format.<br>";
    } else {
        echo "Email: " . htmlspecialchars($email) . "<br>";
    }
}
}
?>
</body>
</html>

```

Experiment 16: PHP Program for Creating and Retrieving a Cookie

```

<!DOCTYPE html>
<html>
<head>
    <title>Cookie Handling</title>
</head>
<body>
<?php
// Handle form submission to set cookie
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $username = $_POST["username"];
    // Set cookie for 30 days (30 * 24 * 60 * 60 seconds)

```

```

        setcookie("username", $username, time() + (30 * 24 * 60 * 60), "/");
        echo "<p>Cookie set! Reload the page to see the cookie value.</p>";
    }

    // Retrieve and display cookie
    if (isset($_COOKIE["username"])) {
        echo "<p>Welcome back, " . htmlspecialchars($_COOKIE["username"]) . "!"</p>";
    } else {
        echo "<p>Welcome, guest!</p>";
    }
}
?>

<form method="post" action="<?php echo htmlspecialchars($_SERVER['PHP_SELF']); ?>">
    <label for="username">Enter Your Name:</label><br>
    <input type="text" name="username" id="username"><br><br>
    <input type="submit" value="Set Cookie">
</form>
</body>
</html>

```

17) Write a program in PHP for exception handling for i) divide by zero ii) checking date format.

```

<?php
function divide($numerator, $denominator) {
    if($denominator == 0) {
        throw new Exception("Cannot divide by zero.");
    }
    return $numerator / $denominator;
}

function checkDateFormat($date, $format = 'Y-m-d') {
    $dateTime = DateTime::createFromFormat($format, $date);
    if(!$dateTime || $dateTime->format($format) != $date) {
        throw new Exception("Invalid date format.");
    }
}

```

```

        echo "The date".$date."is valid.<br>";

        return true;
    }

    try{
        echo divide(10,2)."<br>";
        echo divide(10,0)."<br>";
    }catch (Exception $e) {
        echo "Division error:".$e->getMessage()."<br>";
    }

    try{
        checkDateFormat("2023-03-10");
        checkDateFormat("10/03/2023");
    }catch (Exception $e) {
        echo "Date error:".$e->getMessage()."<br>";
    }

?>

```

18) student database

```
<!-- DATABASE SETUP -->
```

```
CREATE DATABASE student_db;
```

```
USE student_db;
```

```

CREATE TABLE students (
    id INT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    age INT NOT NULL,
    grade VARCHAR(10) NOT NULL
);

```

```
<!-- PHP CODE -->
```

```
<?php
```

```

// Database connection

$host = "localhost";

$username = "root"; // Replace with your database username

$password = ""; // Replace with your database password

$dbname = "student_db";


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


// Check connection
if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
}


// Handle form submissions
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    if (isset($_POST['add'])) {
        // Add a student
        $id = $_POST['id'];

        $name = $_POST['name'];
        $age = $_POST['age'];
        $grade = $_POST['grade'];

        $stmt = $conn->prepare("INSERT INTO students (id, name, age, grade) VALUES (?, ?, ?, ?)");
        $stmt->bind_param("isis", $id, $name, $age, $grade);
        if ($stmt->execute()) {
            echo "<p>Student added successfully!</p>";
            header("Location: " . $_SERVER['PHP_SELF']);
            exit();
        } else {
            echo "<p>Error adding student: " . $stmt->error . "</p>";
        }
    }
}

```

```

$stmt->close();
}

if (isset($_POST['update'])) {
    // Update a student
    $id = $_POST['id'];
    $name = $_POST['name'];
    $age = $_POST['age'];
    $grade = $_POST['grade'];

    $stmt = $conn->prepare("UPDATE students SET name=?, age=?, grade=? WHERE id=?");
    $stmt->bind_param("sisi", $name, $age, $grade, $id);
    if ($stmt->execute()) {
        echo "<p>Student updated successfully!</p>";
        header("Location: " . $_SERVER['PHP_SELF']);
        exit();
    } else {
        echo "<p>Error updating student: " . $stmt->error . "</p>";
    }
    $stmt->close();
}

if (isset($_POST['delete'])) {
    // Delete a student
    $id = $_POST['id'];

    $stmt = $conn->prepare("DELETE FROM students WHERE id=?");
    $stmt->bind_param("i", $id);
    if ($stmt->execute()) {
        echo "<p>Student deleted successfully!</p>";
        header("Location: " . $_SERVER['PHP_SELF']);
    }
}

```

```

        exit();
    } else {
        echo "<p>Error deleting student: " . $stmt->error . "</p>";
    }
    $stmt->close();
}
}

// Fetch all students
$result = $conn->query("SELECT * FROM students");

?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Student Database</title>
</head>
<body>
    <h2>Student Database Management</h2>

    <!-- Add/Update Form -->
    <form method="post" action="">

        <label for="id">id:</label><br>

        <input type="text" name="id" required placeholder="Student ID (for update/delete)"
        value="<?php echo isset($_POST['id']) ? htmlspecialchars($_POST['id']) : ''; ?>"><br><br>

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

        <input type="text" name="name" required value="<?php echo isset($_POST['name']) ?
        htmlspecialchars($_POST['name']) : ''; ?>"><br><br>

        <label for="age">Age:</label><br>

```



```

        <input type="number" name="age" required value="<?php echo isset($_POST['age']) ?
htmlspecialchars($_POST['age']) : ''; ?>"><br><br>

        <label for="grade">Grade:</label><br>

        <input type="text" name="grade" required value="<?php echo isset($_POST['grade']) ?
htmlspecialchars($_POST['grade']) : ''; ?>"><br><br>

        <button type="submit" name="add">Add Student</button>

        <button type="submit" name="update">Update Student</button>

</form>

```

```

<!-- Delete Form -->

<form method="post" action="" style="margin-top: 20px;">

    <label for="id">Student ID to Delete:</label><br>

    <input type="number" name="id" required><br><br>

    <button type="submit" name="delete">Delete Student</button>

</form>

```

```

<!-- Display Students -->

<h3>Student Records</h3>

<?php if ($result->num_rows > 0): ?>

    <table border="1" cellpadding="5" cellspacing="0">

        <tr>

            <th>ID</th>

            <th>Name</th>

            <th>Age</th>

            <th>Grade</th>

        </tr>

        <?php while ($row = $result->fetch_assoc()): ?>

            <tr>

                <td><?php echo $row['id']; ?></td>

                <td><?php echo $row['name']; ?></td>

                <td><?php echo $row['age']; ?></td>

                <td><?php echo $row['grade']; ?></td>

            </tr>

```

```
        </tr>

        <?php endwhile; ?>

    </table>

    <?php else: ?>

        <p>No students found.</p>

    <?php endif; ?>

</body>

</html>
```

```
<?php
$conn->close();
?>
```

19 college website

```
<!DOCTYPE html>

<html>

<head>

    <title>College Website</title>

    <style>

        body {

            font-family: Arial, sans-serif;

            background-color: #f4f4f4;

            margin: 0;

            padding: 0;

        }

        header {

            background-color: #333;

            color: white;

            text-align: center;
```

```
padding: 1rem 0;
}
nav {
  background-color: #444;
  overflow: hidden;
}
nav a {
  color: white;
  padding: 14px 20px;
  text-decoration: none;
  float: left;
}
nav a:hover {
  background-color: #ddd;
  color: black;
}
.content {
  padding: 20px;
}
footer {
  text-align: center;
  padding: 10px;
  background-color: #333;
  color: white;
}
</style>
```

```
</head>
```

```
<body>
```

```
<header>
```

```
    <h1>St. Francis College</h1>
```

```
    <p>Your path to excellence in education</p>
```

```
</header>
```

```
<nav>
```

```
    <a href="?page=home">Home</a>
```

```
    <a href="?page=about">About Us</a>
```

```
    <a href="?page=courses">Courses</a>
```

```
    <a href="?page=contact">Contact Us</a>
```

```
</nav>
```

```
<div class="content">
```

```
<?php
```

```
    // Check which page is requested via the URL
```

```
    if (isset($_GET['page'])) {
```

```
        $page = $_GET['page'];
```

```
    } else {
```

```
        $page = 'home'; // Default page
```

```
    }
```

```
    // Switch content based on the page variable
```

```
    switch ($page) {
```

```
case 'home':  
    echo "<h2>Home</h2>";  
    echo "<p>St. Francis College provides world-class education with a  
variety of courses.</p>";  
    break;  
  
case 'about':  
    echo "<h2>About Us</h2>";  
    echo "<p>St. Francis College was founded in 1901.</p>";  
    break;  
  
case 'courses':  
    echo "<h2>Our Courses</h2>";  
    echo "<ul>";  
    echo "<li>BCA</li>";  
    echo "<li>BBA</li>";  
    echo "<li>B.Sc</li>";  
    echo "</ul>";  
    break;  
  
case 'contact':  
    echo "<h2>Contact Us</h2>";  
    echo "<p>St. Francis College, Bangalore.</p>";  
    break;  
  
default:  
    echo "<h2>404</h2>";
```

```
        echo "<p>Page not found.</p>";
        break;
    }
?>
</div>

<footer>
    <p>&copy; 2024 St. Francis College. All Rights Reserved.</p>
</footer>

</body>
</html>
```

20) upload and store images

```
CREATE DATABASE my_db;
USE my_db;

CREATE TABLE images (
    id INT AUTO_INCREMENT PRIMARY KEY,
    image_name VARCHAR(255),
    image_type VARCHAR(100),
    image_data LONGBLOB
);
<?php
// 1. Database Connection
```

```
$conn = new mysqli("localhost", "root", "", "my_db");
```

```
if ($conn->connect_error) {  
    die("Connection failed: " . $conn->connect_error);  
}
```

```
// 2. Handle Image Retrieval (for <img> tags)
```

```
if (isset($_GET['id'])) {  
    $id = intval($_GET['id']);  
  
    $stmt = $conn->prepare("SELECT image_type, image_data FROM  
images WHERE id = ?");  
    $stmt->bind_param("i", $id);  
    $stmt->execute();  
    $stmt->bind_result($imageType, $imageData);  
  
    if ($stmt->fetch()) {  
        header("Content-Type: $imageType");  
        echo $imageData;  
        exit;  
    } else {  
        echo "Image not found";  
    }  
    $stmt->close();  
}
```

```
// 3. Handle Image Upload
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST" &&  
isset($_FILES["image"])) {
```

```

if ($_FILES["image"]["error"] == 0) {
    $imageName = $_FILES["image"]["name"];
    $imageType = $_FILES["image"]["type"];
    $imageData = file_get_contents($_FILES["image"]["tmp_name"]);

    $stmt = $conn->prepare("INSERT INTO images (image_name,
image_type, image_data) VALUES (?, ?, ?)");
    // "ssb" means string, string, blob
    $stmt->bind_param("ssb", $imageName, $imageType, $null);
    $stmt->send_long_data(2, $imageData); // Send blob data separately

    if ($stmt->execute()) {
        echo "<p>Image uploaded successfully!</p>";
    } else {
        echo "<p>Error: " . $stmt->error . "</p>";
    }
    $stmt->close();
}
}

```

// 4. Function to Display Images

```

function displayImages($conn) {
    $result = $conn->query("SELECT id, image_name FROM images");
    if ($result->num_rows > 0) {
        while ($row = $result->fetch_assoc()) {
            echo "<div style='margin: 15px; display: inline-block; vertical-
align: top;'>";

            // The src points back to this script with the image ID

```



```

        echo "<img src='index.php?id=" . $row['id'] . "' alt='" .
htmlspecialchars($row['image_name']) . "'
        width='200' height='200' style='border: 1px solid #444; object-
fit: cover;'><br>";

        echo htmlspecialchars($row['image_name']);
        echo "</div>";
    }
} else {
    echo "No images uploaded yet.";
}
}
?>

```

```

<!DOCTYPE html>
<html>
<head>
    <title>Upload and Display Images</title>
</head>
<body>
    <h2>Upload Image</h2>
    <form method="post" enctype="multipart/form-data">
        <label>Select image:</label><br>
        <input type="file" name="image" required><br><br>
        <input type="submit" value="Upload">
    </form>

    <hr>
    <h2>Uploaded Images</h2>

```

<?php displayImages(\$conn); ?>

</body>

</html>