1st Prg

<!DOCTYPE html>

<html>

<head>

<title>Form Validation</title>

<script>

function validateForm() {

var email = document.forms["myForm"]["email"].value;

var mobile = document.forms["myForm"]["mobile"].value;

var name = document.forms["myForm"]["name"].value;

var emailRegex = /^[a-zA-Z0-9.\_-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;

var mobileRegex = /^[0-9]{10}$/;

if (name == "") {

alert("Name must be filled out");

return false;

}

if (!emailRegex.test(email)) {

alert("Invalid email format");

return false;

}

if (!mobileRegex.test(mobile)) {

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

return false;

}

return true;

}

</script>

</head>

<body>

<form name="myForm" onsubmit="return validateForm()" method="post">

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

Email: <input type="text" name="email"><br><br>

Mobile: <input type="text" name="mobile"><br><br>

Gender:

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

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

Hobbies:

<input type="checkbox" name="hobby1" value="Reading"> Reading

<input type="checkbox" name="hobby2" value="Traveling"> Traveling<br><br>

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

</form>

</body>

</html>

2nd Prg

<!DOCTYPE html>

<html>

<head>

<title>Math Expression Evaluator</title>

</head>

<body>

<form id="mathForm">

<label for="expression">Enter Mathematical Expression:</label>

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

<input type="button" value="Evaluate" onclick="evaluateExpression()">

</form>

<div id="result"></div>

<script>

function evaluateExpression() {

try {

var expression = document.getElementById('expression').value;

var result = eval(expression);

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

} catch (error) {

document.getElementById('result').innerText = 'Invalid expression';

}

}

</script>

</body>

</html>

3rd Prg

<!DOCTYPE html>

<html>

<head>

<title>Dynamic Page with Animation</title>

<style>

.layer {

width: 200px;

height: 200px;

background-color: skyblue;

position: absolute;

text-align: center;

line-height: 200px;

border-radius: 10px;

left: 0;

top: 100px;

}

</style>

</head>

<body>

<div id="movingLayer" class="layer">Web Programming</div>

<script>

document.addEventListener('DOMContentLoaded', () => {

const layer = document.getElementById('movingLayer');

let position = 0;

let direction = 1;

setInterval(() => {

if (position > window.innerWidth - 200 || position < 0) {

direction \*= -1;

}

position += 5 \* direction;

layer.style.left = position + 'px';

}, 50);

});

</script>

</body>

</html>

4th Prg

<!DOCTYPE html>

<html>

<head>

<title>Sum of Natural Numbers</title>

<script>

function sumOfNaturalNumbers(n) {

let sum = 0;

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

sum += i;

}

return sum;

}

function calculateSum() {

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

n = parseInt(n);

if (!isNaN(n) && n > 0) {

let sum = sumOfNaturalNumbers(n);

alert("Sum of first " + n + " natural numbers is: " + sum);

} else {

alert("Please enter a positive integer.");

}

}

</script>

</head>

<body>

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

<label for="numberInput">Enter a number:</label>

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

<button onclick="calculateSum()">Calculate Sum</button>

</body>

</html>

5th prg

<!DOCTYPE html>

<html lang="en">

<head>

<title>Current Date in Words</title>

</head>

<body>

<h1>Today's Date</h1>

<p id="dateInWords"></p>

<script>

// Arrays containing the names of days and months

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

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

// Getting the current date

const now = new Date();

// Extracting the day, month, and year from the current date

const dayName = days[now.getDay()];

const monthName = months[now.getMonth()];

const year = now.getFullYear();

const date = now.getDate();

// Constructing the date string

const dateString = `${dayName}, ${monthName} ${date}, ${year}`;

// Displaying the date string in the webpage

document.getElementById("dateInWords").innerText = dateString;

</script>

</body>

</html>

6th prg

<!DOCTYPE html>

<html>

<head>

<title>Student Information</title>

<script>

function calculateResults() {

var marks = document.getElementsByClassName('marks');

var total = 0;

for (var i = 0; i < marks.length; i++) {

total += parseInt(marks[i].value, 10);

}

var average = total / marks.length;

var result = average >= 40 ? 'Pass' : 'Fail';

var grade;

if (average >= 80) {

grade = 'A';

} else if (average >= 60) {

grade = 'B';

} else if (average >= 40) {

grade = 'C';

} else {

grade = 'F';

}

document.getElementById('total').innerHTML = 'Total: ' + total;

document.getElementById('average').innerHTML = 'Average: ' + average.toFixed(2);

document.getElementById('result').innerHTML = 'Result: ' + result;

document.getElementById('grade').innerHTML = 'Grade: ' + grade;

}

</script>

</head>

<body>

<h2>Student Information</h2>

<form>

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

Marks 1: <input type="number" class="marks"><br><br>

Marks 2: <input type="number" class="marks"><br><br>

Marks 3: <input type="number" class="marks"><br><br>

<button type="button" onclick="calculateResults()">Calculate</button>

</form>

<p id="total"></p>

<p id="average"></p>

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

<p id="grade"></p>

</body>

</html>

7th prg

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Employee Payroll Calculation</title>

</head>

<body>

<h1>Employee Information Form</h1>

<form id="employeeForm">

<label for="basicPay">Basic Pay: </label>

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

<input type="button" value="Calculate" onclick="calculatePay()">

</form>

<h2>Payroll Details</h2>

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

<script>

function calculatePay() {

const basicPay = parseFloat(document.getElementById('basicPay').value);

// Constants for percentages (can be adjusted as per rules)

const DA\_PERCENT = 20; // 20% of Basic Pay

const HRA\_PERCENT = 15; // 15% of Basic Pay

const PF\_PERCENT = 12; // 12% of Basic Pay

const TAX\_PERCENT = 10; // 10% of Gross Pay

// Calculations

const DA = basicPay \* (DA\_PERCENT / 100);

const HRA = basicPay \* (HRA\_PERCENT / 100);

const PF = basicPay \* (PF\_PERCENT / 100);

const GrossPay = basicPay + DA + HRA;

const Tax = GrossPay \* (TAX\_PERCENT / 100);

const Deductions = PF + Tax;

const NetPay = GrossPay - Deductions;

// Displaying the results

const resultDiv = document.getElementById('result');

resultDiv.innerHTML = `

<strong>Basic Pay:</strong> ${basicPay.toFixed(2)}<br>

<strong>DA:</strong> ${DA.toFixed(2)}<br>

<strong>HRA:</strong> ${HRA.toFixed(2)}<br>

<strong>Gross Pay:</strong> ${GrossPay.toFixed(2)}<br>

<strong>PF:</strong> ${PF.toFixed(2)}<br>

<strong>TAX:</strong> ${Tax.toFixed(2)}<br>

<strong>Total Deductions:</strong> ${Deductions.toFixed(2)}<br>

<strong>Net Pay:</strong> ${NetPay.toFixed(2)}

`;

}

</script>

</body>

</html>

8th prg PHP

<!DOCTYPE html>

<html>

<head>

<title>Color Change by Day</title>

<?php

$daysOfWeek = array(

'Sunday' => '#FF5733',

'Monday' => '#33FF57',

'Tuesday' => '#3357FF',

'Wednesday' => '#FFFF33',

'Thursday' => '#FF33FF',

'Friday' => '#33FFFF',

'Saturday' => '#FF3333'

);

$currentDay = date('l'); // Gets the full textual representation of the day

$backgroundColor = '#FFFFFF'; // Default 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>

9th prg PHP

<?php

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 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

?>

10th prg PHP

<?php

function removeDuplicates($array) {

$result = array\_values(array\_unique($array));

return $result;

}

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

$uniqueList = removeDuplicates($sortedList);

echo "Original List: ";

print\_r($sortedList);

echo "<br>Unique List: ";

print\_r($uniqueList);

?>

11th prg PHP

<?php

// Total number of rows for the pattern

$rows = 5;

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

// Printing leading spaces

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

echo " "; // Non-breaking space for HTML output

}

// Printing asterisks

for ($k = 0; $k < $i; $k++) {

echo "\*";

}

// Move to the next line

echo "<br>";

}

?>

12th prg PHP

<?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);

?>

12th prg PHP

<?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);

?>

13th prg PHP

<?php

session\_start();

function generateCaptchaCode($length = 6) {

$characters = '0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ';

$charactersLength = strlen($characters);

$randomString = '';

for ($i = 0; $i < $length; $i++) {

$randomString .= $characters[rand(0, $charactersLength - 1)];

}

return $randomString;

}

echo "Captcha Code is: " . generateCaptchaCode();

?>

14th prg [DATABASE PHP]

{ Note – you have to change the [image\_data in to LOGBLOB] , open file explorer path as [C:\xampp\mysql\bin] and find “my.ini” open file scroll down and find “mysqld” , add max\_allowed\_packet=64M

wait\_timeout=28800

interactive\_timeout=28800 , save it then go to xmapp and restart the mysql then run the program }

<?php

session\_start();

if (!function\_exists('reconnect')) {

    function reconnect($conn) {

        if (!$conn->ping()) {

            $conn->close();

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

            if ($conn->connect\_error) {

                die("Connection failed: " . $conn->connect\_error);

            }

        }

        return $conn;

    }

}

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

if ($conn->connect\_error) {

    die("Connection failed: " . $conn->connect\_error);

}

if (isset($\_GET['id'])) {

    // Display Image

    $id = intval($\_GET['id']);

    $conn = reconnect($conn);

    $stmt = $conn->prepare("SELECT image\_type, image\_data FROM images WHERE id = ?");

    $stmt->bind\_param("i", $id);

    $stmt->execute();

    $stmt->bind\_result($imageType, $imageData);

    $stmt->fetch();

    header("Content-Type: " . $imageType);

    echo $imageData;

    exit;

}

if ($\_SERVER["REQUEST\_METHOD"] == "POST" && isset($\_FILES["image"])) {

    // Upload Image

    $imageData = file\_get\_contents($\_FILES["image"]["tmp\_name"]);

    $imageName = $\_FILES["image"]["name"];

    $imageType = $\_FILES["image"]["type"];

    $conn = reconnect($conn);

    $stmt = $conn->prepare("INSERT INTO images (image\_name, image\_type, image\_data) VALUES (?, ?, ?)");

    $null = NULL;

    $stmt->bind\_param("ssb", $imageName, $imageType, $null);

    $stmt->send\_long\_data(2, $imageData);

    $stmt->execute();

}

function displayImages($conn) {

    // Display Uploaded Images

    $sql = "SELECT id, image\_name FROM images";

    $result = $conn->query($sql);

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

        echo "<img src='?id=" . $row["id"] . "' alt='" . $row["image\_name"] . "'><br>";

    }

}

?>

<!DOCTYPE html>

<html>

<head>

    <title>Image Upload and Display</title>

</head>

<body>

    <h1>Upload and Display Images</h1>

    <form method="post" enctype="multipart/form-data">

        Select image to upload: <input type="file" name="image" id="image">

        <input type="submit" value="Upload Image" name="submit">

    </form>

    <h2>Uploaded Images:</h2>

    <?php displayImages($conn); ?>

    <?php $conn->close(); ?>

</body>

</html>

15th prg PHP

<!DOCTYPE html>

<html>

<head>

<title>File Reader and Writer</title>

</head>

<body>

<form action="FileReadWrite.php" method="post">

<label for="textdata">Enter Text:</label><br>

<textarea name="textdata" id="textdata"></textarea><br>

<input type="submit" value="Write to File"><br><br>

</form>

<form action="FileReadWrite.php" method="post" enctype="multipart/form-data">

<label for="filedata">Upload File to Read File Contents:</label><br>

<input type="file" name="filedata" id="filedata"><br>

<input type="submit" value="Read File Contents"><br><br>

</form>

</body>

</html>

<?php

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

if (!empty($\_POST['textdata'])) {

file\_put\_contents("output.txt", $\_POST['textdata']);

echo "Data written to file.<br>";

}

if (!empty($\_FILES['filedata']['tmp\_name'])) {

$fileContent = file\_get\_contents($\_FILES['filedata']['tmp\_name']);

echo "File content: " . htmlspecialchars($fileContent) . "<br>";

}

}

?>

16th prg [DATABASE PHP]

<?php

// Establish a connection to the database

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

// Check the connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

// Handle form submission

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

$regno = $\_POST['regno'];

$name = $\_POST['name'];

$age = $\_POST['age'];

$course = $\_POST['course'];

// Determine which action to take (Add, Update, Delete)

switch ($\_POST['action']) {

case 'Add':

$sql = "INSERT INTO student (regno, name, age, course) VALUES ('$regno', '$name', '$age', '$course')";

break;

case 'Update':

$sql = "UPDATE student SET name='$name', age='$age', course='$course' WHERE regno='$regno'";

break;

case 'Delete':

$sql = "DELETE FROM student WHERE regno='$regno'";

break;

default:

$sql = "";

break;

}

// Execute the query and check for errors

if (!empty($sql) && $conn->query($sql) === FALSE) {

echo "Error: $sql<br>" . $conn->error;

}

}

// Function to display students

function displayStudents($conn) {

$sql = "SELECT \* FROM student";

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

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

echo "<table border='1'><tr><th>Reg No</th><th>Name</th><th>Age</th><th>Course</th></tr>";

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

echo "<tr><td>" . $row["regno"] . "</td><td>" . $row["name"] . "</td><td>" . $row["age"] . "</td><td>" . $row["course"] . "</td></tr>";

}

echo "</table>";

} else {

echo "0 results";

}

}

?>

<!DOCTYPE html>

<html>

<head>

<title>Student Database Management</title>

</head>

<body>

<h1>Manage Students</h1>

<form method="post">

Reg No: <input type="text" name="regno"><br><br>

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

Age: <input type="number" name="age"><br><br>

Course: <input type="text" name="course"><br><br>

<input type="submit" name="action" value="Add">

<input type="submit" name="action" value="Update">

<input type="submit" name="action" value="Delete">

</form>

<?php

// Display the student records

displayStudents($conn);

// Close the database connection

$conn->close();

?>

</body>

</html>

17th prg php

<!DOCTYPE html>

<html>

<head>

<title>Input Validation</title>

</head>

<body>

<form method="post">

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

Email: <input type="text" name="email"><br><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><br>";

} else {

echo "Name: $name<br><br>";

}

// Validate email

if (empty($email)) {

echo "Email is required.<br><br>";

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

echo "Invalid email format.<br><br>";

} else {

echo "Email: $email<br><br>";

}

}

?>

</body>

</html>

18th prg php

<!DOCTYPE html>

<html>

<head>

    <title>Cookie Handler</title>

</head>

<body>

    <?php

    // Check if the form has been submitted

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

        // Set the cookie with a name and value from the form

        setcookie("username", $\_POST['username'], time() + (10 \* 30), "/"); // Cookie expires in 300 seconds (10\*30)

        echo "<p>Cookie set. Reload the page to see the cookie value.</p>";

    }

    // Check if the cookie named "username" exists

    if (isset($\_COOKIE["username"])) {

        echo "<p>Welcome back, " . htmlspecialchars($\_COOKIE["username"]) . "!</p>";

    } else {

        echo "<p>Welcome, guest!</p>";

    }

    ?>

    <!-- HTML form to set a cookie -->

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

        <label for="username">Enter your name:</label><br>

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

        <input type="submit" value="Set Cookie">

    </form>

</body>

</html>

19th prg php

Index

<!DOCTYPE html>

<html>

<head>

<title>Skyward Institute of Computer Applications</title>

<style>

body {

font-family: Arial, sans-serif;

}

header {

background-color: #8f9fa;

padding: 20px;

text-align: center;

}

nav {

margin: 20px 0;

text-align: center;

}

nav a {

margin: 15px;

text-decoration: none;

color: black;

}

</style>

</head>

<body>

<header>

<img src="logo.jpg" alt="Skyward Institute of Computer Applications Logo" width="100">

<h1>Skyward Institute of Computer Applications</h1>

<p>157, 3RD MAIN, CHAMRAJPET, BANGALORE 560018</p>

</header>

<nav>

<a href="index.php">Home</a>

<a href="about.php">About Us</a>

<a href="courses.php">Courses</a>

<a href="contact.php">Contact Us</a>

</nav>

<main>

<h2>Welcome to Skyward Institute of Computer Applications</h2>

<p>We provide the best training on computer application courses.</p>

</main>

</body>

</html>

About

<!DOCTYPE html>

<html>

<head>

    <title>About Us - Skyward Institute of Computer Applications</title>

</head>

<body>

    <h1>About Us</h1>

    <p>Skyward Institute of Computer Applications was founded in 2010 with the aim to provide quality education in the field of computer applications...</p>

</body>

</html>

Courses

<!DOCTYPE html>

<html>

<head>

    <title>Courses - Skyward Institute of Computer Applications</title>

</head>

<body>

    <h1>Courses</h1>

    <h2>Bachelor of Computer Applications (BCA)</h2>

    <h2>Master of Computer Applications (MCA)</h2>

</body>

</html>

Contact us

<!DOCTYPE html>

<html>

<head>

    <title>Contact Us - Skyward Institute of Computer Applications</title>

</head>

<body>

    <h1>Contact Us</h1>

    <p>Address: 157, 3RD MAIN, CHAMRAJPET, BANGALORE 560018</p>

    <p>Phone: +91-9611185999</p>

    <p>Email: skyward.publishers@gmail.com</p>

</body>

</html>

20th prg php

<?php

// Function to handle division with exception handling for division by zero

function divide($numerator, $denominator) {

    if ($denominator == 0) {

        throw new Exception("Cannot divide by zero.");

    }

    return $numerator / $denominator;

}

// Function to check the date format with exception handling

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;

}

// Testing Division

try {

    echo divide(10, 2) . "<br>"; // Should work

    echo divide(10, 0) . "<br>"; // Should throw exception

} catch (Exception $e) {

    echo "Division error: " . $e->getMessage() . "<br>";

}

// Testing Date Format

try {

    checkDateFormat("2023-03-10"); // Should work and confirm validity

    checkDateFormat("10/03/2023"); // Should throw exception

} catch (Exception $e) {

    echo "Date error: " . $e->getMessage() . "<br>";

}

?>