1] Create student registration form with name,address,contact,gender,course,languages known,email,password(encrypted) with name ,email and password required.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Student Registration Form</title>

</head>

<body>

<h1>Student Registration</h1>

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

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

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

<label for="address">Address:</label>

<textarea name="address" id="address" rows="4" cols="50"></textarea><br><br>

<label for="contact">Contact Number:</label>

<input type="tel" name="contact" id="contact"><br><br>

<label for="gender">Gender:</label>

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

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

<label for="course">Course:</label>

<select name="course" id="course">

<option value="">Select Course</option>

<option value="Bachelors in Science">BSc</option>

<option value="Bachelors in Arts">BA</option>

<option value="Masters in Science">MSc</option>

</select><br><br>

<label for="languages">Languages Known (check all that apply):</label><br>

<input type="checkbox" name="languages[]" value="English"> English<br>

<input type="checkbox" name="languages[]" value="Hindi"> Hindi<br>

<input type="checkbox" name="languages[]" value="Spanish"> Spanish<br>

<label for="email">Email:</label>

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

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

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

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

</form>

</body>

</html>

----------------------------------------------------------------

2] Create stripped time table of your class with suitable headings and footer.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>My Class Timetable</title>

<style>

table {

border-collapse: collapse;

width: 100%;

}

th, td {

text-align: left;

padding: 8px;

}

tr:nth-child(even) {background-color: #f2f2f2;}

th {

background-color: #ddd;

}

</style>

</head>

<body>

<h1>My Class Timetable</h1>

<table>

<tr>

<th>Day</th>

<th>Time</th>

<th>Subject</th>

</tr>

<tr>

<td>Monday</td>

<td>9:00 AM - 10:00 AM</td>

<td>Math</td>

</tr>

<tr>

<td>Monday</td>

<td>10:00 AM - 11:00 AM</td>

<td>Science</td>

</tr>

<tr>

<td>Tuesday</td>

<td>9:00 AM - 10:00 AM</td>

<td>English</td>

</tr>

<tr>

<td>Tuesday</td>

<td>10:00 AM - 11:00 AM</td>

<td>History</td>

</tr>

</table>

<footer>

<p>This timetable is subject to change.</p>

</footer>

</body>

</html>

--------------------------------------------------------------------

3] Divide the web page into 3 different frameset and render each HTML document in separate frame.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Three Frame Webpage</title>

</head>

<frameset cols="30%, 40%, 30%"> <frame src="frame1.html" name="frame1">

<frame src="frame2.html" name="frame2">

<frame src="frame3.html" name="frame3">

<noframes>

<p>This page uses frames, which your browser may not support. Here's the alternative content:</p>

<ul>

<li><a href="frame1.html">Content for Frame 1</a></li>

<li><a href="frame2.html">Content for Frame 2</a></li>

<li><a href="frame3.html">Content for Frame 3</a></li>

</ul>

</noframes>

</frameset>

</html>

-----------------------------------------------------------

4] Create audio and video gallery.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Audio and Video Gallery</title>

</head>

<body>

<h2>Audio Gallery</h2>

<audio controls>

<source src="audio1.mp3" type="audio/mpeg">

Your browser does not support the audio element.

</audio>

<h2>Video Gallery</h2>

<video controls>

<source src="video1.mp4" type="video/mp4">

Your browser does not support the video element.

</video>

</body>

</html>

-----------------------------------------------------------

5] Create image gallery render at least 8 images.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Image Gallery</title>

<style>

div.gallery

{

margin:5px;

border:2px solid #ccc;

float:left;

width:280px;

}

div.gallery:hover

{

border:1px solid #777;

opacity:0.9;

}

div.gallery img

{

width:100%;

height:300px;

}

div.desc

{

padding:15px;

text-align:center;

}

</style>

</head>

<body>

<div class="gallery">

<a target="\_blank" href="image/fugi.jpg">

<img src="image/fugi.jpg" alt="roadside image" width="600" height="400">

</a>

<div class="desc">Mount Fugi Image</div>

</div>

<div class="gallery">

<a target="\_blank" href="image/cblossom.jpg">

<img src="image/cblossom.jpg" alt="roadside image" width="600" height="400">

</a>

<div class="desc">Cherry Blossom Image</div>

</div>

<div class="gallery">

<a target="\_blank" href="image/NS.jpg">

<img src="image/NS.jpg" alt="roadside image" width="600" height="400">

</a>

<div class="desc">Traditional dress Image</div>

</div>

<div class="gallery">

<a target="\_blank" href="image/Tokyo.jpg">

<img src="image/Tokyo.jpg" alt="roadside image" width="600" height="400">

</a>

<div class="desc">Tokyo Image</div>

</div>

</body>

</html>

---------------------------------------------------------------

6] Design web page showing your introduction with photo.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>My Introduction</title>

<style>

body {

font-family: Arial, sans-serif;

text-align: center;

}

h1 {

color: #333;

}

p {

color: #666;

margin-bottom: 20px;

}

img {

border-radius: 50%;

margin-top: 20px;

width: 200px;

height: 200px;

object-fit: cover;

}

</style>

</head>

<body>

<h1>Hi, I'm [Your Name]</h1>

<img src="image/NS.jpg" alt="Your Photo">

<p>Welcome to my webpage! I'm passionate about [your interests or profession]. I love [your hobbies or activities] and enjoy [mention any accomplishments or goals]. Feel free to explore my page and connect with me!</p>

</body>

</html>

--------------------------------------------------------------

7] Write different 5 paragraphs and apply different color with transparency.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Colorful Paragraphs</title>

<style>

p {

padding: 10px;

margin: 5px;

}

.red { background-color: rgba(255, 0, 0, 0.5); }

.green { background-color: rgba(0, 255, 0, 0.5); }

.blue { background-color: rgba(0, 0, 255, 0.7); }

.yellow { background-color: rgba(255, 255, 0, 0.9); }

.gray { background-color: rgba(128, 128, 128, 0.3); }

</style>

</head>

<body>

<p class="red">Red with 50% transparency.</p>

<p class="green">Green with 50% transparency.</p>

<p class="blue">Blue with 70% transparency.</p>

<p class="yellow">Yellow with 90% transparency.</p>

<p class="gray">Gray with 30% transparency.</p>

</body>

</html>

---------------------------------------------------------------------

8] Design web page which have position values sticky,fixed ,absolute and relative.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Position Property</title>

<style>

/\*

h2.pos\_fixed

{

position:fixed;

top:30px;

left:20px;

color:blue;

z-index:-1;

}

h3.pos\_left

{

position:relative;

left:50px;

top:10px;

z-index:1;

}\*/

h3.pos\_right

{

position:relative;

left:50px;

}

h2

{

position:absolute;

left:200px;

top:200px;

}\*/

img

{

position:sticky;

top:5px;

left:10px;

z-index:1;

}9

</style>

</head>

<body>

<h2>Welcome to Balaji University</h2>

<h3 class="pos\_left">This is Pune City.</h3>

<h3 class="pos\_right">Climate here is very cold.</h3>

<p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempore architecto est similique magni quam, suscipit numquam error eum inventore recusandae sed nobis! Nemo veniam, quas corrupti reprehenderit iusto laborum possimus.</p>

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<img src="image/bee.jpg" alt="This is image" width="100px" height="100px">

<p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempore architecto est similique magni quam, suscipit numquam error eum inventore recusandae sed nobis! Nemo veniam, quas corrupti reprehenderit iusto laborum possimus.</p>

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<p>Lorem ipsum dolor sit amet consectetur adipisicing elit. Quaerat est sapiente dolores temporibus dolor fugiat consequatur tempore, odit eveniet veritatis repellendus maiores earum quidem sed nulla ipsum fuga, corporis molestiae.</p>

</body>

</html>

------------------------------------------------------------

9] Define and call a function factorial using PHP.

<?php

function factorial($n) {

if ($n == 0) {

return 1;

} else {

return $n \* factorial($n - 1);

}

}

// Call the function with an example value

$number = 5;

$result = factorial($number);

echo "The factorial of $number is: $result";

?>

--------------------------------------------------------------------

10] Write a program to implement any 5 string manipulation functions.

<?php

// Function to reverse a string

function reverseString($str) {

return strrev($str);

}

// Function to convert string to uppercase

function toUpperCase($str) {

return strtoupper($str);

}

// Function to convert string to lowercase

function toLowerCase($str) {

return strtolower($str);

}

// Function to get the length of a string

function stringLength($str) {

return strlen($str);

}

// Function to trim whitespace from both ends of a string

function trimString($str) {

return trim($str);

}

// Test the functions

$string = "Hello, World!";

echo "Original string: $string <br>";

echo "Reversed string: " . reverseString($string) . "<br>";

echo "Uppercase string: " . toUpperCase($string) . "<br>";

echo "Lowercase string: " . toLowerCase($string) . "<br>";

echo "Length of string: " . stringLength($string) . "<br>";

echo "Trimmed string: " . trimString($string) . "<br>";

?>

--------------------------------------------------------------

11] Write a program to implement string compare and search operations.

<?php

// Function to compare two strings

function compareStrings($str1, $str2) {

return strcmp($str1, $str2);

}

// Function to search for a substring in a string

function searchString($haystack, $needle) {

return strpos($haystack, $needle);

}

// Test the functions

$string1 = "Hello, World!";

$string2 = "hello, world!";

$searchTerm = "World";

// Compare strings

$comparison = compareStrings($string1, $string2);

if ($comparison == 0) {

echo "The strings are equal.<br>";

} else {

echo "The strings are not equal.<br>";

}

// Search for a substring

$searchResult = searchString($string1, $searchTerm);

if ($searchResult !== false) {

echo "The substring '$searchTerm' was found at position $searchResult in the string '$string1'.<br>";

} else {

echo "The substring '$searchTerm' was not found in the string '$string1'.<br>";

}

?>

------------------------------------------------------------------------------

12] Write a program to check whether a number is prime or not in php.

<?php

function isPrime($number) {

if ($number <= 1) return false;

for ($i = 2; $i <= sqrt($number); $i++) {

if ($number % $i == 0) return false;

}

return true;

}

$number = 17; // Change this number to test different values

echo isPrime($number) ? "$number is a prime number." : "$number is not a prime number.";

?>

---------------------------------------------------------------------

13] Write a program to display Fibonacci series of N terms.

<?php

function fibonacciSeries($n) {

$fib = [0, 1];

for ($i = 2; $i < $n; $i++) {

$fib[$i] = $fib[$i - 1] + $fib[$i - 2];

}

return $fib;

}

$n = 10; // Change this value to display a different number of terms

echo "Fibonacci Series: " . implode(", ", fibonacciSeries($n));

?>

-----------------------------------------------------------------

14] Write a program to swap the numbers using call by value.

<?php

// Function to swap two numbers using call by value

function swapNumbers($a, $b) {

$temp = $a;

$a = $b;

$b = $temp;

echo "After swapping: a = $a, b = $b";

}

// Test the function

$a = 5;

$b = 10;

echo "Before swapping: a = $a, b = $b <br>";

swapNumbers($a, $b);

?>

-------------------------------------------------------

15] Write a program to swap the numbers using call by references

<?php

// Function to swap two numbers using call by reference

function swapNumbers(&$a, &$b) {

$temp = $a;

$a = $b;

$b = $temp;

}

// Test the function

$a = 5;

$b = 10;

echo "Before swapping: a = $a, b = $b <br>";

swapNumbers($a, $b);

echo "After swapping: a = $a, b = $b";

?>

------------------------------------------------------

16]

--------------------------------------------------------

17]

----------------------------------------------------------

18]

----------------------------------------------------------

19]

----------------------------------------------------------

20] Implement mouse over and mouse out event.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Mouse Events</title>

<style>

#box {

width: 200px;

height: 200px;

background-color: lightblue;

text-align: center;

line-height: 200px;

}

</style>

</head>

<body>

<div id="box" onmouseover="mouseOver()" onmouseout="mouseOut()">Hover over me</div>

<script>

function mouseOver() {

document.getElementById("box").style.backgroundColor = "lightgreen";

document.getElementById("box").innerHTML = "Mouse Over";

}

function mouseOut() {

document.getElementById("box").style.backgroundColor = "lightblue";

document.getElementById("box").innerHTML = "Hover over me";

}

</script>

</body>

</html>

----------------------------------------------------------

21] Implement mouse click event and display table of number taken from user.(Draw DOM tree)

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Mouse Click Event</title>

</head>

<body>

<button id="btn">Click Me</button>

<div id="table-container"></div>

<script>

document.getElementById("btn").addEventListener("click", function() {

var n = parseInt(prompt("Enter the number of rows for the table:"));

var tableHTML = "<table border='1'><thead><tr><th>Number</th></tr></thead><tbody>";

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

tableHTML += "<tr><td>" + i + "</td></tr>";

}

tableHTML += "</tbody></table>";

document.getElementById("table-container").innerHTML = tableHTML;

});

</script>

</body>

</html>

--------------------------------------------------------

22] Find out following pattern in a string.

a)only digits b)only spaces c)only characters d)special symbol d)range a to h.

<?php

$string = "abc123 !@# def ghi";

// a) Only digits

if (preg\_match("/^\d+$/", $string)) {

echo "Only digits found in the string<br>";

}

// b) Only spaces

if (preg\_match("/^\s+$/", $string)) {

echo "Only spaces found in the string<br>";

}

// c) Only characters

if (preg\_match("/^[a-zA-Z]+$/", $string)) {

echo "Only characters found in the string<br>";

}

// d) Special symbols

if (preg\_match("/[^\w\s]/", $string)) {

echo "Special symbols found in the string<br>";

}

// e) Range a to h

if (preg\_match("/[a-h]/", $string)) {

echo "Characters in the range a to h found in the string<br>";

}

?>

----------------------------------------------------------

23] Implement different ways of displaying output on screen using java script.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Display Output</title>

</head>

<body>

<div id="output"></div>

<script>

// Using innerHTML

document.getElementById("output").innerHTML = "Hello, World!";

document.write("Hello, World!");

alert("Hello, World!");

// Using textContent

// document.getElementById("output").textContent = "Hello, World!";

</script>

</body>

</html>

---------------------------------------------------------------

24] 25] Design web page that can take data for registration of vehicle from user and display data into another page using get method.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Vehicle Registration Form</title>

</head>

<body>

<h2>Vehicle Registration Form</h2>

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

Make: <input type="text" name="make" required><br>

Model: <input type="text" name="model" required><br>

Year: <input type="number" name="year" required><br>

Color: <input type="text" name="color" required><br>

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

</form>

</body>

</html>

----------------------

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Vehicle Data</title>

</head>

<body>

<h2>Vehicle Registration Data</h2>

<p>Make: <?php echo $\_POST["make"]; ?></p>

<p>Model: <?php echo $\_POST["model"]; ?></p>

<p>Year: <?php echo $\_POST["year"]; ?></p>

<p>Color: <?php echo $\_POST["color"]; ?></p>

</body>

</html>

-------------------------------------------------------------------

26] Design web page that show list of grocery items, food items in 2 different ways.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Grocery and Food Items</title>

<style>

table {

border-collapse: collapse;

width: 50%;

}

table, th, td {

border: 1px solid black;

padding: 8px;

text-align: left;

}

</style>

</head>

<body>

<h2>List of Grocery Items (Using Unordered List)</h2>

<ul>

<li>Milk</li>

<li>Bread</li>

<li>Eggs</li>

<li>Butter</li>

<li>Cheese</li>

</ul>

<h2>List of Food Items (Using Table)</h2>

<table>

<thead>

<tr>

<th>Item</th>

</tr>

</thead>

<tbody>

<tr>

<td>Apple</td>

</tr>

<tr>

<td>Chicken</td>

</tr>

<tr>

<td>Rice</td>

</tr>

<tr>

<td>Pasta</td>

</tr>

<tr>

<td>Salad</td>

</tr>

</tbody>

</table>

</body>

</html>

-----------------------------------------------------

27] Write a program to find perfect number using user defined function in php.

<?php

function isPerfect($number) {

$sum = 0;

for ($i = 1; $i <= $number / 2; $i++) {

if ($number % $i == 0) {

$sum += $i;

}

}

return $sum == $number;

}

$start = 1;

$end = 10000;

$perfectNumbers = [];

for ($i = $start; $i <= $end; $i++) {

if (isPerfect($i)) {

$perfectNumbers[] = $i;

}

}

echo "Perfect numbers between $start and $end are: " . implode(", ", $perfectNumbers);

?>

--------------------------------------------------------

28] Write a program to show scope of variables.

<?php

$globalVar = "I am a global variable";

function testScope() {

$localVar = "I am a local variable";

echo "Inside function: $localVar <br>";

global $globalVar;

echo "Inside function (using global keyword): $globalVar <br>";

static $staticVar = 0;

$staticVar++;

echo "Inside function (using static variable): $staticVar <br>";

}

echo "Outside function: $globalVar <br>";

testScope();

?>

--------------------------------------------------------------

29] write a program to take number from user and find it is prime or not using JavaScript.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Prime Number Checker</title>

</head>

<body>

<h2>Prime Number Checker</h2>

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

<input type="number" id="number">

<button onclick="checkPrime()">Check</button>

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

<script>

function checkPrime() {

var number = parseInt(document.getElementById("number").value);

var isPrime = number > 1;

for (var i = 2; i <= Math.sqrt(number); i++) {

if (number % i === 0) {

isPrime = false;

break;

}

}

document.getElementById("result").innerHTML = isPrime ? number + " is a prime number." : number + " is not a prime number.";

}

</script>

</body>

</html>

-------------------------------------------------------------------------------------

30] Design web page to display 1-month calendars using table tag.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>1-Month Calendar</title>

<style>

table {

width: 100%;

border-collapse: collapse;

}

th, td {

border: 1px solid black;

padding: 10px;

text-align: center;

}

</style>

</head>

<body>

<h2>1-Month Calendar</h2>

<table>

<thead>

<tr>

<th colspan="7">April 2024</th>

</tr>

<tr>

<th>Sun</th>

<th>Mon</th>

<th>Tue</th>

<th>Wed</th>

<th>Thu</th>

<th>Fri</th>

<th>Sat</th>

</tr>

</thead>

<tbody>

<tr>

<td></td>

<td></td>

<td></td>

<td></td>

<td>1</td>

<td>2</td>

<td>3</td>

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<td>7</td>

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<tr>

<td>25</td>

<td>26</td>

<td>27</td>

<td>28</td>

<td>29</td>

<td>30</td>

<td></td>

</tr>

</tbody>

</table>

</body>

</html>

-------------------------------------------------------------------

1. 31] Open file sample.txt in read mode and open another file data.txt in write mode. Copy the data from one file into another file and display the contents of same file in the browser.

<?php

// Open sample.txt in read mode

$sourceFile = fopen("copy.txt", "r") or die("Unable to open file!");

// Open data.txt in write mode

$targetFile = fopen("data.txt", "w") or die("Unable to open file!");

// Copy data from source file to target file

while (!feof($sourceFile)) {

$data = fread($sourceFile, 1024);

fwrite($targetFile, $data);

}

// Close both files

fclose($sourceFile);

fclose($targetFile);

// Open and display contents of data.txt in browser

$dataFile = fopen("data.txt", "r") or die("Unable to open file!");

echo "<h2>Contents of data.txt:</h2>";

while (!feof($dataFile)) {

echo fgets($dataFile) . "<br>";

}

fclose($dataFile);

?>

--------------------------------------------------------------------

1. 32] Define static variable count in your program to count frequency of calling a function call. Also define global and local variables in function and perform some basic arithmetic operations.

<?php

function performOperations($a, $b) {

// Static variable to count function calls

static $count = 0;

$count++;

// Global variable

global $globalVar;

$globalVar = "I am a global variable";

// Local variable

$localVar = "I am a local variable";

// Perform arithmetic operations

$sum = $a + $b;

$difference = $a - $b;

$product = $a \* $b;

$quotient = ($b != 0) ? ($a / $b) : "Cannot divide by zero";

// Display results

echo "Function call #$count <br>";

echo "Global variable: $globalVar <br>";

echo "Local variable: $localVar <br>";

echo "Arithmetic operations: <br>";

echo "$a + $b = $sum <br>";

echo "$a - $b = $difference <br>";

echo "$a \* $b = $product <br>";

echo "$a / $b = $quotient <br><br>";

}

// Function calls

performOperations(10, 5);

performOperations(20, 0);

?>

-------------------------------------------------------

33] 33)Write a program in php fore reading and writing characters in file

<?php

$sourceFile = fopen("copy.txt", "r") or die("Unable to open source file!");

$targetFile = fopen("data.txt", "w") or die("Unable to open target file!");

while (!feof($sourceFile)) {

$char = fgetc($sourceFile);

if ($char !== false) {

fwrite($targetFile, $char);

}

}

fclose($sourceFile);

fclose($targetFile);

echo "Characters copied successfully from copy.txt to data.txt.";

?>

---------------------------------------------------------------

1. 34] Write a program in php for rename, delete and reading characters in file from file.

<?php

// Rename file

$oldFileName = "oldfile.txt";

$newFileName = "newfile.txt";

rename($oldFileName, $newFileName) or die("Error renaming file!");

// Delete file

$fileNameToDelete = "fileToDelete.txt";

unlink($fileNameToDelete) or die("Error deleting file!");

// Read characters from file

$fileNameToRead = "fileToRead.txt";

$fileContent = file\_get\_contents($fileNameToRead) or die("Error reading file!");

// Display file content

echo "File content: <br>";

echo $fileContent;

?>

---------------------------------------------------------------

1. 35] Write a program in php to perform different regular expression operations.

<?php

$inputString = "The quick brown fox jumps over the lazy dog";

// Match for a word

if (preg\_match("/quick/", $inputString)) {

echo "Pattern 1: 'quick' found in the input string<br>";

} else {

echo "Pattern 1: 'quick' not found in the input string<br>";

}

// Replace a word

$newString = preg\_replace("/brown/", "red", $inputString);

echo "Pattern 2: Replaced 'brown' with 'red': $newString<br>";

// Match for numbers

if (preg\_match("/\d+/", $inputString)) {

echo "Pattern 3: Number found in the input string<br>";

} else {

echo "Pattern 3: No number found in the input string<br>";

}

// Match for vowels

preg\_match\_all("/[aeiou]/", $inputString, $matches);

$vowels = implode(", ", $matches[0]);

echo "Pattern 4: Vowels found in the input string: $vowels<br>";

// Split string into array

$wordsArray = preg\_split("/\s+/", $inputString);

echo "Pattern 5: Words in the input string: ";

print\_r($wordsArray);

?>

-------------------------------------------------------------

1. 37] Implement mouse up and mouse down event in php and Draw DOM tree for the same.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Mouse Up and Mouse Down Events</title>

<style>

#container {

width: 300px;

height: 200px;

border: 1px solid black;

background-color: lightgray;

text-align: center;

line-height: 200px;

cursor: pointer;

}

</style>

</head>

<body>

<div id="container">

Click and hold here

</div>

<script>

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

container.addEventListener("mousedown", function() {

container.style.backgroundColor = "gray";

});

container.addEventListener("mouseup", function() {

container.style.backgroundColor = "lightgray";

});

</script>

</body>

</html>

------------------------------------------------------------------

38] Write a program in php to read entire contents from file using fread and fgets function.

<?php

// Using fread() function

$filename = "example.txt";

$file = fopen($filename, "r") or die("Unable to open file!");

$contents1 = fread($file, filesize($filename));

fclose($file);

echo "Using fread() function:<br>$contents1<br><br>";

// Using fgets() function

$file = fopen($filename, "r") or die("Unable to open file!");

$contents2 = "";

while (!feof($file)) {

$contents2 .= fgets($file);

}

fclose($file);

echo "Using fgets() function:<br>$contents2";

?>

-------------------------------------------------------------

39] Write a javascript code to check whether given year is leap year or not. Take year as input form user and display the result on onclick event of the mouse. Draw DOM tree on your program.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Leap Year Checker</title>

</head>

<body>

<label for="year">Enter a year:</label>

<input type="number" id="year">

<button onclick="checkLeapYear()">Check Leap Year</button>

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

<script>

function checkLeapYear() {

var year = parseInt(document.getElementById("year").value);

var isLeapYear = (year % 4 === 0 && year % 100 !== 0) || (year % 400 === 0);

var result = isLeapYear ? "Leap year" : "Not a leap year";

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

}

</script>

</body>

</html>

--------------------------------------------------------------