**Slip 1**

**Q1:** **Write a HTML code to create following table.**

**College/courses Computer Science Commerce**

**UG PG UG PG**

**MIT ACSC ALANDI BSc-CS MSc-CS BBA(CA) MCA**

**DY PATIL BSc-IT MSc-CS BCOM MCOM**

<!DOCTYPE html>

<html>

<head>

<title>College Courses Table</title>

</head>

<body>

<table border="1" cellpadding="8" cellspacing="0">

<tr>

<th rowspan="2">College/courses</th>

<th colspan="2">Computer Science</th>

<th colspan="2">Commerce</th>

</tr>

<tr>

<th>UG</th>

<th>PG</th>

<th>UG</th>

<th>PG</th>

</tr>

<tr>

<td>MIT ACSC ALANDI</td>

<td>BSc-CS</td>

<td>MSc-CS</td>

<td>BBA(CA)</td>

<td>MCA</td>

</tr>

<tr>

<td>DY PATIL</td>

<td>BSc-IT</td>

<td>MSc-CS</td>

<td>BCOM</td>

<td>MCOM</td>

</tr>

</table>

</body>

</html>

**OR: Simple JavaScript Program to Convert Number to Words:**

**Write a JavaScript program to accept a number from user and display that number in words (e.g. 226 Two Two Six)**

**html**

<!DOCTYPE html>

<html>

<head>

<title>Number to Words</title>

</head>

<body>

<script>

function numberToWords(num) {

let words = ["Zero", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine"];

let numStr = num.toString();

let result = "";

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

result += words[parseInt(numStr[i])] + " ";

}

return result.trim();

let userNumber = prompt("Enter a number:");

alert("In Words: " + numberToWords(userNumber));

</script>

</body>

</html>

**Q2:** **Design HTML form to accept values to insert records into Database table using PHP. After inserting 3 records display Link to print same records in tabular format.**

**Project (Pno, Pname, Pduration, Pbudget)**

<!DOCTYPE html>

<html>

<head>

<title>Project Entry Form</title>

</head>

<body>

<h2>Enter Project Details</h2>

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

Project No: <input type="text" name="pno"><br><br>

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

Project Duration: <input type="text" name="pduration"><br><br>

Project Budget: <input type="text" name="pbudget"><br><br>

<input type="submit" value="Insert Project">

</form>

</body>

</html>

**insert.php**

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "your\_database"; // Replace with your DB name

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

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

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

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

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

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

$sql = "INSERT INTO project (pno, pname, pduration, pbudget) VALUES ('$pno', '$pname', '$pduration', '$pbudget')"

if ($conn->query($sql) === TRUE) {

echo "Record inserted successfully!<br>";

echo "<a href='display.php'>Click here to display records</a>";

} else {

echo "Error: " . $conn->error;

}

$conn->close();

?>

**display.php**

<?php

$conn = new mysqli("localhost", "root", "", "your\_database")

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

$result = $conn->query("SELECT \* FROM project");

echo "<table border='1' cellpadding='8'><tr><th>Pno</th><th>Pname</th><th>Pduration</th><th>Pbudget</th></tr>";

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

echo "<tr>

<td>{$row['pno']}</td>

<td>{$row['pname']}</td>

<td>{$row['pduration']}</td>

<td>{$row['pbudget']}</td>

</tr>";

}

echo "</table>";

$conn->close();

?>

**Slip 2:**

**Q1:** **Accept 3 integers and print maximum:**

**Write a PHP script to accept three integers and print maximum among them.**

<?php

$a = 10;

$b = 25;

$c = 15

$max = $a

if($b > $max) {

$max = $b;

}

if($c > $max) {

$max = $c;

}

echo "Maximum number is: " . $max;

?>

**OR:** **JavaScript — Accept Array & Display Largest Number:**

**Write a JavaScript program that accepts an array of numbers and displays the largest number in the array.**

<!DOCTYPE html>

<html>

<head>

<title>Largest Number in Array</title>

</head>

<body>

<script>

let numbers = [10, 45, 30, 99, 22]; // example array

let max = numbers[0];

for(let i = 1; i < numbers.length; i++) {

if(numbers[i] > max) {

max = numbers[i];

}

}

document.write("Largest Number is: " + max);

</script>

</body>

</html>

**Q2:**

**index.html** (Open index.html in the browser.)

<!DOCTYPE html>

<html>

<head>

<title>Historical Places</title>

</head>

<frameset cols="30%,70%">

<frame src="links.html" name="leftFrame">

<frame src="welcome.html" name="rightFrame">

</frameset>

</html>

**links.html**

<!DOCTYPE html>

<html>

<body>

<h3>Historical Places</h3>

<a href="pune.html" target="rightFrame">1. Pune</a><br>

<a href="mumbai.html" target="rightFrame">2. Mumbai</a>

</body>

</html>

**welcome.html**

<!DOCTYPE html>

<html>

<body>

<h3>Historical places names as per city</h3>

</body>

</html>

**pune.html**

<!DOCTYPE html>

<html>

<body>

<h3>Places in Pune:</h3>

<ul>

<li>Shaniwar Wada</li>

<li>Aga Khan Palace</li>

<li>Sinhagad Fort</li>

</ul>

</body>

</html>

**mumbai.html**

<!DOCTYPE html>

<html>

<body>

<h3>Places in Mumbai:</h3>

<ul>

<li>Gateway of India</li>

<li>Elephanta Caves</li>

<li>Chhatrapati Shivaji Terminus</li>

</ul>

</body>

</html>

**Slip 3**

**Q1:** **HTML code to create "List of Books" table**

<!DOCTYPE html>

<html>

<head>

<title>List of Books</title>

</head>

<body>

<table border="1" cellpadding="8" cellspacing="0">

<tr>

<th colspan="5">List of Books</th>

</tr>

<tr>

<th>Book No</th>

<th>Name</th>

<th>Author</th>

<th colspan="2">Price</th>

</tr>

<tr>

<th></th>

<th></th>

<th></th>

<th>Rs.</th>

<th>Paisa</th>

</tr>

<tr>

<td>1</td>

<td>Data Structure</td>

<td>Balguruswami</td>

<td>350</td>

<td>50</td>

</tr>

<tr>

<td>2</td>

<td>C programming</td>

<td>Yeshwant Kanitkar</td>

<td>200</td>

<td>0</td>

</tr>

</table>

</body>

</html>

**OR:** **JavaScript to convert Fahrenheit to Celsius:**

<!DOCTYPE html>

<html>

<head>

<title>Temperature Converter</title>

</head>

<body>

<script>

let fahrenheit = prompt("Enter temperature in Fahrenheit:");

let celsius = (fahrenheit - 32) \* 5 / 9;

alert("Temperature in Celsius: " + celsius.toFixed(2));

</script>

</body>

</html>

**Q2:**

**student\_form.html ( to run:** [**http://localhost/student\_form.html**](http://localhost/student_form.html) **)**

<!DOCTYPE html>

<html>

<head>

<title>Student Information Form</title>

</head>

<body>

<h2>Student Information Form</h2>

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

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

Gender:

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

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

Address: <textarea name="address"></textarea><br><br>

Hobbies:

<input type="checkbox" name="hobbies[]" value="Reading"> Reading

<input type="checkbox" name="hobbies[]" value="Sports"> Sports

<input type="checkbox" name="hobbies[]" value="Music"> Music <br><br>

City: <input type="text" name="city"><br><br>

State: <input type="text" name="state"><br><br>

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

<input type="reset" value="Reset">

</form>

</body>

</html>

**display.php**

<?php

echo "<h2>Student Information</h2>";

echo "Name: " . $\_POST['name'] . "<br>";

echo "Gender: " . $\_POST['gender'] . "<br>";

echo "Address: " . $\_POST['address'] . "<br>";

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

echo "Hobbies: " . implode(", ", $\_POST['hobbies']) . "<br>";

} else {

echo "Hobbies: None<br>";

}

echo "City: " . $\_POST['city'] . "<br>";

echo "State: " . $\_POST['state'] . "<br>";

?>

**Slip 4:**

**Q1:** **JavaScript: Find Min and Max of 3 Numbers**

<!DOCTYPE html>

<html>

<head>

<title>Internal Style Example</title>

<style>

.style1 {

font-family: 'Comic Sans MS';

font-size: 14pt;

text-align: justify;

color: blue;

}

.style2 {

border: solid;

padding: 20px;

margin: 30px;

background-color: skyblue;

}

</style>

</head>

<body>

<div class="style1">

This is a sample paragraph with Comic Sans font, size 14pt, justified alignment and blue color text.

</div>

<div class="style2">

This is a styled box with solid border, padding 20px, margin 30px, and sky blue background.

</div>

</body>

</html>

**OR:** **JavaScript: Find Min and Max of 3 Numbers**

<!DOCTYPE html>

<html>

<head>

<title>Min and Max Finder</title>

</head>

<body

<script>

let num1 = parseFloat(prompt("Enter first number:"));

let num2 = parseFloat(prompt("Enter second number:"));

let num3 = parseFloat(prompt("Enter third number:"));

let max = Math.max(num1, num2, num3);

let min = Math.min(num1, num2, num3);

alert("Maximum number is: " + max + "\nMinimum number is: " + min);

</script>

</body>

</html>

**Q2:**

**grocery\_form.html**

<!DOCTYPE html>

<html>

<head>

<title>Grocery Bill</title>

</head>

<body>

<h2>Enter Grocery Details</h2>

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

Item Codes (comma separated): <input type="text" name="codes"><br><br>

Item Names (comma separated): <input type="text" name="names"><br><br>

Units Sold (comma separated): <input type="text" name="units"><br><br>

Rates (comma separated): <input type="text" name="rates"><br><br>

<input type="submit" value="Generate Bill">

</form>

</body>

</html>

**bill.php**

<?php

$codes = explode(",", $\_POST['codes']);

$names = explode(",", $\_POST['names']);

$units = explode(",", $\_POST['units']);

$rates = explode(",", $\_POST['rates']);

$total = 0;

echo "<h2>Grocery Bill</h2>";

echo "<table border='1' cellpadding='8'>";

echo "<tr><th>Item Code</th><th>Item Name</th><th>Units Sold</th><th>Rate</th><th>Amount</th></tr>";

for ($i = 0; $i < count($codes); $i++) {

$amount = $units[$i] \* $rates[$i];

$total += $amount;

echo "<tr>";

echo "<td>{$codes[$i]}</td>";

echo "<td>{$names[$i]}</td>";

echo "<td>{$units[$i]}</td>";

echo "<td>{$rates[$i]}</td>";

echo "<td>{$amount}</td>";

echo "</tr>";

}

echo "<tr><td colspan='4'><strong>Total Amount</strong></td><td><strong>{$total}</strong></td></tr>";

echo "</table>";

?>

**Slip 5:**

**Q1:**

<?php

$number = 153; // You can change this number

$sum = 0;

$temp = $number;

while ($temp != 0) {

$digit = $temp % 10;

$sum += $digit \* $digit \* $digit;

$temp = (int)($temp / 10);

}

if ($number == $sum) {

echo "$number is an Armstrong Number.";

} else {

echo "$number is NOT an Armstrong Number.";

}

?>

**OR:** **JavaScript Program to Check Even or Odd**

<!DOCTYPE html>

<html>

<head>

<title>Even or Odd Checker</title>

</head>

<body>

<script>

let number = prompt("Enter a number:");

number = parseInt(number);

if(number % 2 === 0) {

alert(number + " is Even");

} else {

alert(number + " is Odd");

}

</script>

</body>

</html>

**Q2:**

**main.html**

<!DOCTYPE html>

<html>

<head>

<title>College Frames</title>

</head>

<frameset rows="30%,70%">

<frame src="college.html" name="topFrame">

<frameset cols="50%,50%">

<frame src="courses.html" name="leftFrame">

<frame src="departments.html" name="rightFrame">

</frameset>

</frameset>

</html>

**college.html**

<!DOCTYPE html>

<html>

<body>

<h2>My College Name</h2>

</body>

</html>

**courses.html**

<!DOCTYPE html>

<html>

<body>

<h3>Courses</h3>

<ul>

<li>BSc Computer Science</li>

<li>BCom</li>

<li>MSc Computer Science</li>

</ul>

</body>

</html>

**departments.html**

<!DOCTYPE html>

<html>

<body>

<h3>Departments</h3>

<ol>

<li>Computer Science</li>

<li>Commerce</li>

<li>Management</li>

</ol>

</body>

</html>

**Slip 6:**

**Q1:** **HTML Code for Nested List**

<!DOCTYPE html>

<html>

<head>

<title>MIT ACSC Courses</title>

</head>

<body>

<ol type="I">

<li>MIT ACSC

<ol type="A">

<li>Computer Applications

<ol type="1">

<li>BCA</li>

<li>BBA-CA</li>

<li>MSc-CA</li>

</ol>

</li>

<li>Computer Science

<ol type="1">

<li>BSc-CS</li>

<li>BSc-IT</li>

</ol>

</li>

</ol>

</li>

</ol>

</body>

</html>

**OR:** **JavaScript Email Validation Program**

<!DOCTYPE html>

<html>

<head>

<title>Email Validator</title>

</head>

<body>

<script>

let email = prompt("Enter your email:");

if (email.includes("@") && email.includes(".")) {

alert("Valid Email Address");

} else {

alert("Invalid Email Address");

}

</script>

</body>

</html**>**

**Q2:**

**registration.html**

<!DOCTYPE html>

<html>

<head>

<title>ITFEST 2025 Registration</title>

</head>

<body>

<h2>Student Registration for ITFEST 2025</h2>

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

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

Gender:

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

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

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

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

Game Chosen: <input type="text" name="game"><br><br>

Payment Mode:

<select name="payment">

<option value="Cash">Cash</option>

<option value="Online">Online</option>

</select><br><br>

Payment Done:

<input type="checkbox" name="payment\_done" value="Yes"> Yes<br><br>

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

<input type="reset" value="Reset">

</form>

</body>

</html>

**register.php**

<?php

echo "<h2>Student Registration Details</h2>";

echo "Name: " . $\_POST['name'] . "<br>";

echo "Gender: " . $\_POST['gender'] . "<br>";

echo "Mobile: " . $\_POST['mobile'] . "<br>";

echo "College Name: " . $\_POST['college'] . "<br>";

echo "Game Chosen: " . $\_POST['game'] . "<br>";

echo "Payment Mode: " . $\_POST['payment'] . "<br>";

if(isset($\_POST['payment\_done'])){

echo "Payment Done: Yes<br>";

} else {

echo "Payment Done: No<br>";

}

?>

**Slip 7**

**Q1:** **Internal CSS Styling Example (HTML File)**

<!DOCTYPE html>

<html>

<head>

<title>Internal Style Example</title>

<style>

.style1 {

font-family: 'Caveat', cursive;

font-size: 18pt;

font-weight: bold;

text-align: center;

color: red;

}

.style2 {

border: double;

padding: 20px;

margin: 30px;

background-color: skyblue;

}

</style>

</head>

<body>

<div class="style1">This is Style 1 text</div>

<div class="style2">This is Style 2 box</div>

</body>

</html>

**OR:** **Sum of Odd Numbers in an Array**

<!DOCTYPE html>

<html>

<head>

<title>Sum of Odd Numbers</title>

</head>

<body>

<script>

let numbers = [10, 7, 4, 15, 9, 8, 3]; // Sample array

let sum = 0;

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

if(numbers[i] % 2 !== 0) {

sum += numbers[i];

}

}

alert("Sum of Odd Numbers: " + sum);

</script>

</body>

</html>

**Q2:**

**pizza\_order.html (to run:** [**http://localhost/pizza\_order.html**](http://localhost/pizza_order.html) **)**

<!DOCTYPE html>

<html>

<head>

<title>Pizza Order Form</title>

</head>

<body>

<h2>Pizza Order Form</h2>

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

Date: <input type="date" name="date"><br><br>

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

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

Address: <textarea name="address"></textarea><br><br>

Pizza Size:

<select name="size">

<option value="Small">Small</option>

<option value="Medium">Medium</option>

<option value="Large">Large</option>

</select><br><br>

Toppings:<br>

<input type="checkbox" name="toppings[]" value="Cheese"> Cheese<br>

<input type="checkbox" name="toppings[]" value="Mushrooms"> Mushrooms<br>

<input type="checkbox" name="toppings[]" value="Olives"> Olives<br><br>

Payment Mode:

<select name="payment">

<option value="Cash">Cash</option>

<option value="Card">Card</option>

<option value="UPI">UPI</option>

</select><br><br>

Payment Done: <input type="checkbox" name="done" value="Yes"> Yes<br><br>

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

<input type="reset" value="Reset">

</form>

</body>

</html>

**order.php**

<?php

echo "<h2>Pizza Order Summary</h2>";

echo "Date: " . $\_POST['date'] . "<br>";

echo "Customer Name: " . $\_POST['name'] . "<br>";

echo "Mobile: " . $\_POST['mobile'] . "<br>";

echo "Address: " . $\_POST['address'] . "<br>";

echo "Pizza Size: " . $\_POST['size'] . "<br>";

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

echo "Toppings: " . implode(", ", $\_POST['toppings']) . "<br>";

} else {

echo "Toppings: None<br>";

}

echo "Payment Mode: " . $\_POST['payment'] . "<br>";

if (isset($\_POST['done'])) {

echo "Payment Status: Done<br>";

} else {

echo "Payment Status: Not Done<br>";

}

?>

**Slip 8:**

**Q1:** **HTML Table Code**

<!DOCTYPE html>

<html>

<head>

<title>Product Table</title>

<style>

table {

border-collapse: collapse;

width: 60%;

text-align: center;

}

th, td {

border: 1px solid black;

padding: 8px;

}

th {

background-color: #f2f2f2;

}

</style>

</head>

<body>

<h3>Product Table</h3>

<table>

<tr>

<th rowspan="2">Supplier Name</th>

<th rowspan="2">Product Name</th>

<th colspan="2">Product Details</th>

<th rowspan="2">Total</th>

</tr>

<tr>

<th>Price</th>

<th>Quantity</th>

</tr>

<tr>

<td>Priya Electronics</td>

<td>Printers</td>

<td>2500</td>

<td>5</td>

<td>12500</td>

</tr>

<tr>

<td>Raj Electronics</td>

<td>Scanners</td>

<td>1800</td>

<td>7</td>

<td>12600</td>

</tr>

</table>

**OR:**

<!DOCTYPE html>

<html>

<head>

<title>Greeting</title>

</head>

<body>

<script>

var today = new Date();

var hour = today.getHours();

var greeting;

if (hour < 12) {

greeting = "Good Morning!";

} else if (hour < 18) {

greeting = "Good Afternoon!";

} else {

greeting = "Good Evening!";

}

document.write("<h2>" + greeting + " Welcome to our website!</h2>");

</script>

</body>

</html>

**Q2:** **HTML Workshop Registration Form & PHP Code**

<!DOCTYPE html>

<html>

<head>

<title>Workshop Registration</title>

</head>

<body>

<h3>Workshop Registration Form</h3>

<form action="register.php" method="POST">

Student Name: <input type="text" name="student\_name" required><br><br>

Gender:

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

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

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

College Name: <input type="text" name="college\_name" required><br><br>

Workshop Topic:

<select name="topic" required>

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

<option value="Web Development">Web Development</option>

<option value="Data Science">Data Science</option>

<option value="Cyber Security">Cyber Security</option>

</select><br><br>

Workshop Date: <input type="date" name="workshop\_date" required><br><br>

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

<input type="reset" value="Reset">

</form>

</body>

</html>

**Slip 9:**

**Q1:** **Internal CSS**

<!DOCTYPE html>

<html>

<head>

<title>Internal Style Sheet Example</title>

<style>

.style1 {

font-family: Arial, sans-serif;

font-size: 18pt;

text-decoration: underline;

font-weight: bold;

text-align: center;

color: red;

}

.style2 {

border: solid 1px black;

padding: 20px;

margin: 30px;

background-color: pink;

}

</style>

</head>

<body>

<h1 class="style1">This is Style 1 Heading</h1>

<div class="style2">

This is a styled box using Style 2.

</div>

</body>

</html>

**OR:**

<!DOCTYPE html>

<html>

<head>

<title>Sort Array Descending</title>

</head>

<body>

<h2>Sorted Array in Descending Order:</h2>

<ul id="sortedList"></ul>

<script>

let numbers = [12, 5, 8, 130, 44];

numbers.sort(function(a, b) {

return b - a; // Descending order

});

let list = document.getElementById("sortedList");

numbers.forEach(function(num) {

let item = document.createElement("li");

item.textContent = num;

list.appendChild(item);

});

</script>

</body>

</html>

**Q2:**

**teacher\_form.html**

<!DOCTYPE html>

<html>

<head>

<title>Teacher Registration</title>

</head>

<body>

<h2>Teacher Registration Form</h2>

<form method="POST" action="insert\_teacher.php">

Teacher No: <input type="text" name="tno" required><br><br>

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

Subject: <input type="text" name="subject" required><br><br>

Research Area: <input type="text" name="research" required><br><br>

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

</form>

</body>

</html>

**insert\_teacher.php**

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname = "college"; // Create this database beforehand

// Create connection

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

// Check connection

if ($conn->connect\_error) {

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

}

// Insert Record

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

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

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

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

$sql = "INSERT INTO Teacher (Tno, Name, Subject, Research\_area) VALUES ('$tno', '$name', '$subject', '$research')";

$conn->query($sql);

// Display Records

$result = $conn->query("SELECT \* FROM Teacher");

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

echo "<h2>Teacher Records:</h2>";

echo "<table border='1' cellpadding='10'><tr><th>Tno</th><th>Name</th><th>Subject</th><th>Research Area</th></tr>";

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

echo "<tr>

<td>{$row['Tno']}</td>

<td>{$row['Name']}</td>

<td>{$row['Subject']}</td>

<td>{$row['Research\_area']}</td>

</tr>";

}

echo "</table>";

} else {

echo "No records found.";

}

$conn->close();

?>

**Database Setup:**

CREATE DATABASE college;

USE college;

CREATE TABLE Teacher (

Tno INT PRIMARY KEY,

Name VARCHAR(100),

Subject VARCHAR(100),

Research\_area VARCHAR(100)

);

**Slip 10:**

**Q1:**

<?php

$number = 29; // You can change this to any number you want to check

$isPrime = true;

if ($number <= 1) {

$isPrime = false;

} else {

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

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

$isPrime = false;

break;

}

}

}

if ($isPrime) {

echo "$number is a Prime Number.";

} else {

echo "$number is NOT a Prime Number.";

}

?>

**OR:**

<!DOCTYPE html>

<html>

<head>

<title>Random Background Color</title>

</head>

<body>

<button onclick="changeColor()">Click to Change Background Color</button>

<script>

function changeColor() {

var colors = ["lightblue", "lightgreen", "yellow", "pink", "lavender", "orange"];

var randomIndex = Math.floor(Math.random() \* colors.length);

document.body.style.backgroundColor = colors[randomIndex];

}

</script>

</body>

</html>

**Q.2 — HTML Frameset Layout for Organisation Info**

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Organisation Layout</title>

</head>

<frameset rows="20%,60%,20%">

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

<frameset cols="33%,34%,33%">

<frame src="colors.html" name="colorsFrame">

<frame src="cities.html" name="citiesFrame">

<frame src="images.html" name="imagesFrame">

</frameset>

<frame src="footer.html" name="footerFrame">

</frameset>

</html>

**header.html**

<!DOCTYPE html>

<html>

<head><title>Header</title></head>

<body style="text-align:center; font-size:20px; font-weight:bold;">

Organisation Name and Address

</body>

</html>

**colors.html**

<!DOCTYPE html>

<html>

<head><title>Favourite Colors</title></head>

<body>

<h3>Favourite Colors</h3>

<ul>

<li>Blue</li>

<li>Green</li>

<li>Red</li>

<li>Purple</li>

</ul>

</body>

</html>

**cities.html**

<!DOCTYPE html>

<html>

<head><title>Cities</title></head>

<body>

<h3>Numbered List of Cities</h3>

<ol>

<li>New York</li>

<li>London</li>

<li>Tokyo</li>

<li>Paris</li>

</ol>

</body>

</html>

**images.html**

<!DOCTYPE html>

<html>

<head><title>Images</title></head>

<body>

<h3>Two Images</h3>

<img src="https://via.placeholder.com/100" alt="Image 1">

<img src="https://via.placeholder.com/100" alt="Image 2">

</body>

</html>

**footer.html**

<!DOCTYPE html>

<html>

<head><title>Scrolling Message</title></head>

<body>

<marquee>Welcome to our Organisation! Stay tuned for updates.</marquee>

</body>

</html>

**Slip11 :**

**Q.1 Design Following list using HTML. [10] A. Maharshtra a. Pune i. Shirur ii. Rajgurunagar b. Ahilya Nagar i. Sangamner ii. Kopargaon**

<!DOCTYPE html>

<html>

<head>

<title>Nested List Example</title>

</head>

<body>

<h2>Location List</h2>

<ol type="A">

<li>Maharashtra

<ol type="a">

<li>Pune

<ol type="i">

<li>Shirur</li>

<li>Rajgurunagar</li>

</ol>

</li>

<li>Ahilya Nagar

<ol type="i">

<li>Sangamner</li>

<li>Kopargaon</li>

</ol>

</li>

</ol>

</li>

</ol>

</body>

</html>

**OR: Write a JavaScript program that accepts a string from the user and Total count and individual counts how many vowels (a, e, i, o, u) are present in the string. Display the result.**

<!DOCTYPE html>

<html>

<head>

<title>Vowel Counter</title>

</head>

<body>

<h2>Vowel Counter Program</h2>

<input type="text" id="userInput" placeholder="Enter a string">

<button onclick="countVowels()">Count Vowels</button>

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

<script>

function countVowels() {

var str = document.getElementById("userInput").value.toLowerCase();

var vowels = { a: 0, e: 0, i: 0, o: 0, u: 0 };

var total = 0;

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

if (vowels.hasOwnProperty(str[i])) {

vowels[str[i]]++;

total++;

}

}

var result = "Total Vowels: " + total + "<br>" +

"a: " + vowels.a + "<br>" +

"e: " + vowels.e + "<br>" +

"i: " + vowels.i + "<br>" +

"o: " + vowels.o + "<br>" +

"u: " + vowels.u;

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

}

</script>

</body>

</html>

**Q.2 Design a HTML form for Registration of Workshop with fields like (Student Name, Gender, Mobile, College Name, Workshop Topic List, Workshop Date) with Submit and Reset buttons by applying appropriate form controls. Write PHP script to display this information in best way after submission.**

**registration.html …..http://localhost/registration.html**

<!DOCTYPE html>

<html>

<head>

<title>Workshop Registration Form</title>

</head>

<body>

<h2>Workshop Registration Form</h2>

<form action="display.php" method="POST">

<label>Student Name:</label>

<input type="text" name="student\_name" required><br><br>

<label>Gender:</label>

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

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

<input type="radio" name="gender" value="Other"> Other <br><br>

<label>Mobile Number:</label>

<input type="tel" name="mobile" pattern="[0-9]{10}" required placeholder="10-digit number"><br><br>

<label>College Name:</label>

<input type="text" name="college\_name" required><br><br>

<label>Workshop Topic:</label>

<select name="topic" required>

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

<option value="Web Development">Web Development</option>

<option value="Data Science">Data Science</option>

<option value="Cloud Computing">Cloud Computing</option>

<option value="Cyber Security">Cyber Security</option>

</select><br><br>

<label>Workshop Date:</label>

<input type="date" name="workshop\_date" required><br><br>

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

<input type="reset" value="Reset">

</form>

</body>

</html>

**display.php**

<?php

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

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

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

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

$college = $\_POST['college\_name'];

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

$date = $\_POST['workshop\_date'];

echo "<h2>Workshop Registration Details</h2>";

echo "<table border='1' cellpadding='10'>";

echo "<tr><th>Field</th><th>Details</th></tr>";

echo "<tr><td>Student Name</td><td>$name</td></tr>";

echo "<tr><td>Gender</td><td>$gender</td></tr>";

echo "<tr><td>Mobile</td><td>$mobile</td></tr>";

echo "<tr><td>College Name</td><td>$college</td></tr>";

echo "<tr><td>Workshop Topic</td><td>$topic</td></tr>";

echo "<tr><td>Workshop Date</td><td>$date</td></tr>";

echo "</table>";

} else {

echo "No data submitted.";

}

?>

**Slip 12:**

**Q1:** **Design Following list using HTML. [10] I. MIT ACSC A. Computer Applications 1. BCA 2. BBA-CA 3. MSc-CA B. Computer Science 1. BSc-CS 2. BSc-IT**

<!DOCTYPE html>

<html>

<head>

<title>MIT ACSC Program List</title>

</head>

<body>

<h2>Course List</h2>

<ol type="I">

<li>MIT ACSC

<ol type="A">

<li>Computer Applications

<ol type="1">

<li>BCA</li>

<li>BBA-CA</li>

<li>MSc-CA</li>

</ol>

</li>

<li>Computer Science

<ol type="1">

<li>BSc-CS</li>

<li>BSc-IT</li>

</ol>

</li>

</ol>

</li>

</ol>

</body>

</html>

**OR: Design a HTML form for Login screen with fields like (Username, Password, Confirmed Password) with Submit and Reset buttons. Validate Username for Minimum 2 Characters and Password and Confirmed Passwords are same using JavaScript.**

<!DOCTYPE html>

<html>

<head>

<title>Login Form with Validation</title>

<script>

function validateForm() {

var username = document.getElementById("username").value.trim();

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

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

if (username.length < 2) {

alert("Username must be at least 2 characters long.");

return false;

}

if (password === "") {

alert("Password cannot be empty.");

return false;

}

if (password !== confirmPassword) {

alert("Passwords do not match!");

return false;

}

alert("Login Successful!");

return true;

}

</script>

</head>

<body>

<h2>Login Form</h2>

<form onsubmit="return validateForm()">

<label>Username:</label>

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

<label>Password:</label>

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

<label>Confirm Password:</label>

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

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

<input type="reset" value="Reset">

</form>

</body>

</html>

**Q.2 Write a AJAX program to select Research area by user through dropdown list. After selection print Teacher information in tabular format of that Research area from Database table Teacher. Teacher (Tno, Name, Subject, Research area)**

1. **Database Table: Teacher**

CREATE TABLE Teacher (

Tno INT PRIMARY KEY,

Name VARCHAR(100),

Subject VARCHAR(100),

ResearchArea VARCHAR(100)

);

**index.html**

<!DOCTYPE html>

<html>

<head>

<title>Teacher Research Area Lookup</title>

<script>

function fetchTeachers() {

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

if (researchArea === "") {

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

return;

}

var xhr = new XMLHttpRequest();

xhr.open("GET", "get\_teachers.php?area=" + encodeURIComponent(researchArea), true);

xhr.onreadystatechange = function() {

if (xhr.readyState === 4 && xhr.status === 200) {

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

}

};

xhr.send();

}

</script>

</head>

<body>

<h2>Select Research Area</h2>

<select id="researchArea" onchange="fetchTeachers()">

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

<option value="Data Science">Data Science</option>

<option value="Artificial Intelligence">Artificial Intelligence</option>

<option value="Cyber Security">Cyber Security</option>

</select>

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

</body>

</html>

**get\_teachers.php**

<?php

$host = "localhost";

$user = "root";

$password = "";

$db = "your\_database\_name"; // Replace with your database name

$conn = new mysqli($host, $user, $password, $db);

if ($conn->connect\_error) {

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

}

$area = $\_GET['area'];

$sql = "SELECT Tno, Name, Subject, ResearchArea FROM Teacher WHERE ResearchArea = ?";

$stmt = $conn->prepare($sql);

$stmt->bind\_param("s", $area);

$stmt->execute();

$result = $stmt->get\_result();

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

echo "<h3>Teachers in $area</h3>";

echo "<table border='1' cellpadding='5'>

<tr><th>Tno</th><th>Name</th><th>Subject</th><th>Research Area</th></tr>";

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

echo "<tr>

<td>{$row['Tno']}</td>

<td>{$row['Name']}</td>

<td>{$row['Subject']}</td>

<td>{$row['ResearchArea']}</td>

</tr>";

}

echo "</table>";

} else {

echo "<p>No teachers found for <strong>$area</strong>.</p>";

}

$stmt->close();

$conn->close();

?>

**Slip 13**

**Q1:** **Write a HTML code to create following table.**

**College/courses Computer Science Commerce**

**UG PG UG PG**

**MIT ACSC ALANDI BSc-CS MSc-CS BBA(CA) MCA**

**DY PATIL BSc-IT MSc-CS BCOM MCOM**

<!DOCTYPE html>

<html>

<head>

<title>College Courses Table</title>

</head>

<body>

<table border="1" cellpadding="8" cellspacing="0">

<tr>

<th rowspan="2">College/courses</th>

<th colspan="2">Computer Science</th>

<th colspan="2">Commerce</th>

</tr>

<tr>

<th>UG</th>

<th>PG</th>

<th>UG</th>

<th>PG</th>

</tr>

<tr>

<td>MIT ACSC ALANDI</td>

<td>BSc-CS</td>

<td>MSc-CS</td>

<td>BBA(CA)</td>

<td>MCA</td>

</tr>

<tr>

<td>DY PATIL</td>

<td>BSc-IT</td>

<td>MSc-CS</td>

<td>BCOM</td>

<td>MCOM</td>

</tr>

</table>

</body>

</html>

**OR:** **Write a JavaScript program to calculate the area of a rectangle. The program should take the length and width of the rectangle as inputs from the user and display the result.**

<!DOCTYPE html>

<html>

<head>

<title>Rectangle Area Calculator</title>

<script>

function calculateArea() {

var length = parseFloat(document.getElementById("length").value);

var width = parseFloat(document.getElementById("width").value);

if (isNaN(length) || isNaN(width) || length <= 0 || width <= 0) {

alert("Please enter valid positive numbers for length and width!");

return;

}

var area = length \* width;

document.getElementById("result").innerHTML =

"The area of the rectangle is: <strong>" + area + "</strong>";

}

</script>

</head>

<body>

<h2>Rectangle Area Calculator</h2>

<label>Enter Length:</label>

<input type="number" id="length" placeholder="e.g. 5"><br><br>

<label>Enter Width:</label>

<input type="number" id="width" placeholder="e.g. 4"><br><br>

<button onclick="calculateArea()">Calculate Area</button>

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

</body>

</html>

**Q2:Design a HTML form for student Registration information for the ITFEST 2025 event like (Student Name, Gender, Mobile, College name, Game Chosen, Payment Mode, Payment) Submit and Reset buttons by applying appropriate form controls. Write PHP script to insert this information as record in database Table Registration after submission**.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>ITFEST 2025 Student Registration</title>

<style>

body {

font-family: sans-serif;

background-color: #f4f4f4;

display: flex;

justify-content: center;

align-items: center;

min-height: 100vh;

margin: 0;

}

.registration-form {

background-color: #fff;

padding: 30px;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

width: 400px;

}

.form-group {

margin-bottom: 20px;

}

label {

display: block;

margin-bottom: 5px;

font-weight: bold;

}

input[type="text"],

input[type="tel"],

select {

width: calc(100% - 12px);

padding: 8px;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

.radio-group {

display: flex;

gap: 15px;

}

.radio-group label {

font-weight: normal;

}

.button-group {

margin-top: 20px;

display: flex;

gap: 10px;

justify-content: flex-end;

}

button {

padding: 10px 20px;

border: none;

border-radius: 4px;

cursor: pointer;

font-size: 16px;

}

button[type="submit"] {

background-color: #007bff;

color: white;

}

button[type="reset"] {

background-color: #6c757d;

color: white;

}

</style>

</head>

<body>

<div class="registration-form">

<h2>ITFEST 2025 Student Registration</h2>

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

<div class="form-group">

<label for="student\_name">Student Name:</label>

<input type="text" id="student\_name" name="student\_name" required>

</div>

<div class="form-group">

<label>Gender:</label>

<div class="radio-group">

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

<label for="male">Male</label>

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

<label for="female">Female</label>

<input type="radio" id="other" name="gender" value="Other" required>

<label for="other">Other</label>

</div>

</div>

<div class="form-group">

<label for="mobile">Mobile Number:</label>

<input type="tel" id="mobile" name="mobile" pattern="[0-9]{10}" placeholder="Enter 10-digit mobile number" required>

</div>

<div class="form-group">

<label for="college\_name">College Name:</label>

<input type="text" id="college\_name" name="college\_name" required>

</div>

<div class="form-group">

<label for="game\_chosen">Game Chosen:</label>

<select id="game\_chosen" name="game\_chosen" required>

<option value="">-- Select a Game --</option>

<option value="Coding Competition">Coding Competition</option>

<option value="Web Development">Web Development</option>

<option value="Gaming">Gaming</option>

<option value="Robotics">Robotics</option>

<option value="Cyber Security">Cyber Security</option>

</select>

</div>

<div class="form-group">

<label for="payment\_mode">Payment Mode:</label>

<select id="payment\_mode" name="payment\_mode" required>

<option value="">-- Select Payment Mode --</option>

<option value="Online">Online</option>

<option value="Cash">Cash</option>

</select>

</div>

<div class="form-group">

<label for="payment">Payment Amount:</label>

<input type="text" id="payment" name="payment" placeholder="Enter amount" required>

</div>

<div class="button-group">

<button type="submit">Submit</button>

<button type="reset">Reset</button>

</div>

</form>

</div>

</body>

</html>

**register.php**

<?php

// Database credentials

$servername = "localhost"; // Replace with your server name

$username = "your\_username"; // Replace with your database username

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

$dbname = "your\_database\_name"; // Replace with your database name

// Create connection

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

// Check connection

if ($conn->connect\_error) {

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

}

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

$student\_name = $\_POST["student\_name"];

$gender = $\_POST["gender"];

$mobile = $\_POST["mobile"];

$college\_name = $\_POST["college\_name"];

$game\_chosen = $\_POST["game\_chosen"];

$payment\_mode = $\_POST["payment\_mode"];

$payment = $\_POST["payment"];

// Prepare and bind the SQL statement

$stmt = $conn->prepare("INSERT INTO Registration (student\_name, gender, mobile, college\_name, game\_chosen, payment\_mode, payment) VALUES (?, ?, ?, ?, ?, ?, ?)");

$stmt->bind\_param("sssssss", $student\_name, $gender, $mobile, $college\_name, $game\_chosen, $payment\_mode, $payment);

// Execute the statement

if ($stmt->execute()) {

echo "<p style='text-align:center; color: green;'>Registration successful!</p>";

} else {

echo "<p style='text-align:center; color: red;'>Error: " . $stmt->error . "</p>";

}

// Close the statement

$stmt->close();

}

// Close the connection

$conn->close();

?>

**Database**

CREATE TABLE Registration (

id INT AUTO\_INCREMENT PRIMARY KEY,

student\_name VARCHAR(255) NOT NULL,

gender VARCHAR(10) NOT NULL,

mobile VARCHAR(15) NOT NULL,

college\_name VARCHAR(255) NOT NULL,

game\_chosen VARCHAR(100) NOT NULL,

payment\_mode VARCHAR(50) NOT NULL,

payment DECIMAL(10, 2) NOT NULL,

registration\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

**Slip 14:**

**Q1:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Train Schedule</title>

<style>

table {

border-collapse: collapse;

width: 100%;

}

th, td {

border: 1px solid black;

padding: 8px;

text-align: left;

}

th[colspan="2"] {

text-align: center;

}

</style>

</head>

<body>

<table>

<thead>

<tr>

<th rowspan="2">Train name</th>

<th rowspan="2">Starting place</th>

<th rowspan="2">Destination place</th>

<th colspan="2">Time</th>

<th rowspan="2">Fare</th>

</tr>

<tr>

<th>Arrival</th>

<th>Departure</th>

</tr>

</thead>

<body>

<tr>

<td>Rajdhani exp</td>

<td>Delhi</td>

<td>Mumbai</td>

<td>1:00</td>

<td>11:00</td>

<td>Rs.255</td>

</tr>

<tr>

<td>Chennai exp</td>

<td>Pune</td>

<td>Chennai</td>

<td>5:00</td>

<td>17:00</td>

<td>Rs.500</td>

</tr>

</body>

</table>

</body>

</html>

**OR:** **Write a JavaScript program that find given number is Prime or not.**

// Function to check if a number is prime

function isPrime(num) {

// Check if the number is less than 2

if (num <= 1) {

return false; // Numbers less than 2 are not prime

}

// Loop through numbers from 2 to the square root of num

for (let i = 2; i <= Math.sqrt(num); i++) {

if (num % i === 0) {

return false; // If num is divisible by any number, it's not prime

}

}

return true; // If no divisors are found, num is prime

}

// Example usage:

let number = 29; // You can change this number to test other numbers

if (isPrime(number)) {

console.log(number + " is a Prime number.");

} else {

console.log(number + " is not a Prime number.");

}

**Q.2 Write PHP script to demonstrate the concept of introspection for examining object. [15] (Any four functions)**

<?php

// Define a class

class SampleClass {

public $property1 = "Hello";

private $property2 = "World";

public function method1() {

return "This is method1";

}

private function method2() {

return "This is method2";

}

}

// Create an object of the class

$obj = new SampleClass();

// 1. Get the class name of the object

echo "Class Name: " . get\_class($obj) . "\n";

// 2. Get all methods of the class

$methods = get\_class\_methods($obj);

echo "Methods in the class:\n";

foreach ($methods as $method) {

echo "- " . $method . "\n";

}

// 3. Get public properties of the object

$properties = get\_object\_vars($obj);

echo "Properties of the object:\n";

foreach ($properties as $key => $value) {

echo "$key => $value\n";

}

// 4. Check if a method exists in the class

$methodName = "method1";

if (method\_exists($obj, $methodName)) {

echo "$methodName exists in the class.\n";

} else {

echo "$methodName does not exist in the class.\n";

}

$methodName = "method2";

if (method\_exists($obj, $methodName)) {

echo "$methodName exists in the class.\n";

} else {

echo "$methodName does not exist in the class.\n";

}

?>

**Slip 15:**

**Q1:** **Design a HTML form to accept a string. Write a PHP function that checks whether a passed string is a palindrome or not?**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Palindrome Checker</title>

</head>

<body>

<h2>Palindrome Checker</h2>

<!-- Form to accept a string -->

<form method="post" action="check\_palindrome.php">

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

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

<input type="submit" value="Check Palindrome">

</form>

</body>

</html>

**OR: Write a menu driven program using JavaScript to find square, cube of a given number and validate them**

function calculateSquare(number) {

return number \* number;

}

function calculateCube(number) {

return number \* number \* number;

}

function isValidNumber(input) {

return !isNaN(input) && input.trim() !== "";

}

// Menu-driven program using prompt

function menu() {

let choice;

do {

choice = prompt(

"Choose an option:\n" +

"1. Find Square\n" +

"2. Find Cube\n" +

"3. Exit"

);

switch (choice) {

case "1":

let num1 = prompt("Enter a number to find its Square:");

if (isValidNumber(num1)) {

let square = calculateSquare(parseFloat(num1));

alert("The square of " + num1 + " is: " + square);

} else {

alert("Invalid input! Please enter a valid number.");

}

break;

case "2":

let num2 = prompt("Enter a number to find its Cube:");

if (isValidNumber(num2)) {

let cube = calculateCube(parseFloat(num2));

alert("The cube of " + num2 + " is: " + cube);

} else {

alert("Invalid input! Please enter a valid number.");

}

break;

case "3":

alert("Exiting the program. Goodbye!");

break;

default:

alert("Invalid choice! Please select 1, 2, or 3.");

break;

}

} while (choice !== "3");

}

// Start the program

menu();

**Q2:**

**Slip 16:**

**Q.1 Write an External Style sheet for the following styles and implement it in HTML file.[10] Style 1 - Puria, 18pt, Bold, Center, Red (for headings) Style 2 – Arial, 12pt, Justify, blue (for paragraphs) Style 3 - Border - Double, Padding - 40px, Margin - 40 px, Background Color - silver**

**styles.css**

/\* Style 1 - For Headings \*/

.heading {

font-family: Puria, sans-serif;

font-size: 18pt;

font-weight: bold;

text-align: center;

color: red;

}

/\* Style 2 - For Paragraphs \*/

.paragraph {

font-family: Arial, sans-serif;

font-size: 12pt;

text-align: justify;

color: blue;

}

/\* Style 3 - For Notes \*/

.note {

border: double 3px black;

padding: 40px;

margin: 40px;

background-color: silver;

}

**index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>External CSS Example</title>

<link rel="stylesheet" href="styles.css">

</head>

<body>

<h1 class="heading">Welcome to Web Design</h1>

<p class="paragraph">

This is a sample paragraph. The text here is using Arial font, sized at 12pt, blue color, and justified alignment for a clean and professional appearance.

</p>

<div class="note">

Note: This section demonstrates the use of a double border, 40px padding, 40px margin, and a silver background to highlight important notes on the webpage.

</div>

</body>

</html>

**OR:Write a JavaScript Program to read a number from user, store its factors into the array and display that array**

// JavaScript program to read a number, find its factors, and store them in an array

let number = parseInt(prompt("Enter a number to find its factors:"));

let factors = [];

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

if (number % i === 0) {

factors.push(i);

}

}

alert("Factors of " + number + " are: " + factors.join(", "));

**Q.2 Design a HTML form for collecting Employee information like (Eid, Name, Gender, Department, Hobbies, City, State) with Submit and Reset buttons by applying appropriate form controls. On submitting display collected data on screen with proper formatting using PHP script.**

**employee\_form.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Employee Information Form</title>

</head>

<body>

<h2>Employee Information Form</h2>

<form action="display\_employee.php" method="post">

<label>Employee ID:</label>

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

<label>Name:</label>

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

<label>Gender:</label>

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

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

<label>Department:</label>

<select name="department" required>

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

<option value="HR">HR</option>

<option value="Finance">Finance</option>

<option value="IT">IT</option>

<option value="Marketing">Marketing</option>

</select><br><br>

<label>Hobbies:</label>

<input type="checkbox" name="hobbies[]" value="Reading"> Reading

<input type="checkbox" name="hobbies[]" value="Sports"> Sports

<input type="checkbox" name="hobbies[]" value="Music"> Music<br><br>

<label>City:</label>

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

<label>State:</label>

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

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

<input type="reset" value="Reset">

</form>

</body>

</html>

**Slip 17**

**Q.1 Design Following list using HTML.**

**A. Maharshtra a. Pune i. Shirur ii. Rajgurunagar b. Ahilya Nagar i. Sangamner ii. Kopargaon**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Nested List Example</title>

</head>

<body>

<h2>Districts in Maharashtra</h2>

<ol type="A">

<li>Maharashtra

<ol type="a">

<li>Pune

<ol type="i">

<li>Shirur</li>

<li>Rajgurunagar</li>

</ol>

</li>

<li>Ahilya Nagar

<ol type="i">

<li>Sangamner</li>

<li>Kopargaon</li>

</ol>

</li>

</ol>

</li>

</ol>

</body>

</html>

**OR:Write a JavaScript program that changes the background color of the web page when a button is clicked. The color should be randomly chosen from a list of colors.**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Random Background Color</title>

<style>

body {

text-align: center;

padding-top: 100px;

font-family: Arial, sans-serif;

}

button {

padding: 10px 20px;

font-size: 16px;

border-radius: 8px;

cursor: pointer;

}

</style>

</head>

<body>

<h2>Click the button to change background color!</h2>

<button onclick="changeBackgroundColor()">Change Color</button>

<script>

function changeBackgroundColor() {

// Array of colors

const colors = ["lightblue", "lightgreen", "lightcoral", "khaki", "violet", "peachpuff", "plum", "skyblue", "salmon"];

// Generate a random index

const randomIndex = Math.floor(Math.random() \* colors.length);

// Apply the random color

document.body.style.backgroundColor = colors[randomIndex];

}

</script>

</body>

</html>

**Q.2 Design a HTML form for collecting Customer information like (Name, Gender, Address, Hobbies, City, State) with Submit and Reset buttons by applying appropriate form controls. On submitting display collected data on screen with proper formatting using PHP script.**

**customer\_form.html…..** **http://localhost/customer\_form.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Customer Information Form</title>

</head>

<body>

<h2>Customer Information Form</h2>

<form action="display\_customer.php" method="post">

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

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

<label Gender:</label>

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

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

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

<textarea name="address" id="address" rows="4" cols="40" required></textarea><br><br>

<label>Hobbies:</label><br>

<input type="checkbox" name="hobbies[]" value="Reading"> Reading

<input type="checkbox" name="hobbies[]" value="Traveling"> Traveling

<input type="checkbox" name="hobbies[]" value="Music"> Music

<input type="checkbox" name="hobbies[]" value="Sports"> Sports<br><br>

<label for="city">City:</label>

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

<label for="state">State:</label>

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

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

<input type="reset" value="Reset">

</form>

</body>

</html>

**display\_customer.php**

<?php

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

echo "<h2>Customer Information Received:</h2>";

echo "<strong>Name:</strong> " . htmlspecialchars($\_POST["name"]) . "<br>";

echo "<strong>Gender:</strong> " . htmlspecialchars($\_POST["gender"]) . "<br>";

echo "<strong>Address:</strong> " . nl2br(htmlspecialchars($\_POST["address"])) . "<br>";

if (!empty($\_POST["hobbies"])) {

echo "<strong>Hobbies:</strong> " . implode(", ", $\_POST["hobbies"]) . "<br>";

} else {

echo "<strong>Hobbies:</strong> None selected<br>";

}

echo "<strong>City:</strong> " . htmlspecialchars($\_POST["city"]) . "<br>";

echo "<strong>State:</strong> " . htmlspecialchars($\_POST["state"]) . "<br>";

} else {

echo "No data submitted.";

}

?>

Slip 18:

**Q.1 Write a Internal Style sheet for the following styles and implement it in HTML file. [10] Style 1 - Comic Sans Ms, 14pt, Justify, Blue (For Headings) Style 2 – Arial, 12pt, Justify, Green (for Paragraphs) Style 2 - Border - Solid, Padding - 20px, Margin - 30 px, Background Color - sky blue (for Notes)**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Internal Style Sheet Example</title>

<style>

/\* Style 1 - For Headings \*/

.heading {

font-family: "Comic Sans MS", cursive, sans-serif;

font-size: 14pt;

text-align: justify;

color: blue;

}

/\* Style 2 - For Paragraphs \*/

.paragraph {

font-family: Arial, sans-serif;

font-size: 12pt;

text-align: justify;

color: green;

}

/\* Style 3 - For Notes \*/

.note {

border: solid 2px black;

padding: 20px;

margin: 30px;

background-color: skyblue;

}

</style>

</head>

<body>

<h2 class="heading">This is a Heading Styled with Comic Sans MS</h2>

<p class="paragraph">

This is a sample paragraph text. It is written in Arial font, size 12pt, green color, and justified alignment.

Internal CSS makes it easy to apply styles directly in the same HTML file.

</p>

<div class="note">

<p>This is a note section. It has a solid border, 20px padding, 30px margin, and a sky blue background.</p>

</div>

</body>

</html>

**OR Write a JavaScript function to calculate the factorial of a number entered by the user. Display the result.**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Factorial Calculator</title>

</head>

<body>

<h2>Factorial Calculator</h2>

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

<input type="number" id="number" min="0">

<button onclick="calculateFactorial()">Calculate</button>

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

<script>

function calculateFactorial() {

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

num = parseInt(num);

if (isNaN(num) || num < 0) {

document.getElementById("result").innerHTML = "Please enter a valid non-negative number.";

return;

}

let factorial = 1;

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

factorial \*= i;

}

document.getElementById("result").innerHTML =

"The factorial of " + num + " is: " + factorial;

}

</script>

</body>

</html>

**Q.2 Write a PHP script to create a Class shape and its subclass triangle, square and display area of the selected shape.( use the concept of Inheritance) . Display menu (use radio button) & take input from user in HTML form. a) Triangle b) Square**

**shape\_form.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Shape Area Calculator</title>

</head>

<body>

<h2>Select Shape and Enter Values</h2>

<form action="shape\_area.php" method="post">

<label>Select Shape:</label><br>

<input type="radio" name="shape" value="triangle" required> Triangle<br>

<input type="radio" name="shape" value="square"> Square<br><br>

<label>Enter Base (for Triangle) or Side (for Square):</label><br>

<input type="number" name="value1" step="0.01" required><br><br>

<label>Enter Height (only for Triangle):</label><br>

<input type="number" name="value2" step="0.01"><br><br>

<input type="submit" value="Calculate Area">

</form>

</body>

</html>

**shape\_area.php**

<?php

// Base Class

class Shape {

protected $area;

public function displayArea() {

return $this->area;

}

}

// Subclass for Triangle

class Triangle extends Shape {

public function calculateArea($base, $height) {

$this->area = 0.5 \* $base \* $height;

}

}

// Subclass for Square

class Square extends Shape {

public function calculateArea($side) {

$this->area = $side \* $side;

}

}

// Handle the form submission

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

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

$value1 = floatval($\_POST['value1']);

$value2 = isset($\_POST['value2']) ? floatval($\_POST['value2']) : 0;

if ($shape == "triangle") {

$triangle = new Triangle();

$triangle->calculateArea($value1, $value2);

echo "<h2>Area of Triangle: " . $triangle->displayArea() . "</h2>";

} elseif ($shape == "square") {

$square = new Square();

$square->calculateArea($value1);

echo "<h2>Area of Square: " . $square->displayArea() . "</h2>";

} else {

echo "<p>Invalid shape selected.</p>";

}

}

?>

**Slip 19:**

**Q.1 Design Following list using HTML.**

**A. Fruits o Apple o Grapes o Jackfruit B. Vegetable o Tomato o Cabbage o Beans**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Fruits and Vegetables List</title>

</head>

<body>

<h2>Fruits and Vegetables List</h2>

<ol type="A">

<li>Fruits

<ul>

<li>Apple</li>

<li>Grapes</li>

<li>Jackfruit</li>

</ul>

</li>

<li>Vegetables

<ul>

<li>Tomato</li>

<li>Cabbage</li>

<li>Beans</li>

</ul>

</li>

</ol>

</body>

</html>

**OR: Write a JavaScript program that converts a user-inputted string to both uppercase and lowercase and displays both results in separately.**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>String Case Converter</title>

</head>

<body>

<h2>String Case Converter</h2>

<label for="inputString">Enter a string:</label>

<input type="text" id="inputString" required>

<button onclick="convertCase()">Convert</button>

<p><strong>Uppercase:</strong> <span id="uppercaseResult"></span></p>

<p><strong>Lowercase:</strong> <span id="lowercaseResult"></span></p>

<script>

function convertCase() {

// Get the input string from the user

let userString = document.getElementById("inputString").value;

// Convert the string to uppercase and lowercase

let uppercaseString = userString.toUpperCase();

let lowercaseString = userString.toLowerCase();

// Display the results

document.getElementById("uppercaseResult").innerText = uppercaseString;

document.getElementById("lowercaseResult").innerText = lowercaseString;

}

</script>

</body>

</html>

**Q.2 Design a HTML form to accept a string. Write a PHP script for the following. [15] a) Write a function to count the total number of Vowels from the script. b) Show the occurrences of each Vowel from the script.**

**string\_form.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Vowel Counter</title>

</head>

<body>

<h2>Enter a String to Count Vowels</h2>

<form action="vowel\_count.php" method="post">

<label for="inputString">Enter a string:</label><br>

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

<input type="submit" value="Count Vowels">

</form>

</body>

</html>

**vowel\_count.php**

<?php

// Function to count the total number of vowels and show the occurrences of each vowel

function countVowels($string) {

// Convert the string to lowercase to handle case-insensitive comparison

$string = strtolower($string);

// Array to store the count of each vowel

$vowelCount = array('a' => 0, 'e' => 0, 'i' => 0, 'o' => 0, 'u' => 0);

// Loop through the string and count the vowels

$totalVowels = 0;

for ($i = 0; $i < strlen($string); $i++) {

$char = $string[$i];

if (in\_array($char, ['a', 'e', 'i', 'o', 'u'])) {

$vowelCount[$char]++;

$totalVowels++;

}

}

// Display the total number of vowels

echo "<h2>Total number of vowels: $totalVowels</h2>";

// Display the occurrences of each vowel

echo "<h3>Occurrences of each vowel:</h3>";

echo "<ul>";

foreach ($vowelCount as $vowel => $count) {

echo "<li>" . strtoupper($vowel) . ": $count</li>";

}

echo "</ul>";

}

// Check if the form was submitted

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

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

countVowels($inputString);

} else {

echo "<p>Please enter a string in the form to count vowels.</p>";

}

?>

**Slip20:**

**Q1:** **Write a PHP script to accept integer from user and display the table of that integer as output**

**table\_form.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Multiplication Table</title>

</head>

<body>

<h2>Enter an Integer to Display Multiplication Table</h2>

<form action="multiplication\_table.php" method="post">

<label for="number">Enter an integer:</label><br>

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

<input type="submit" value="Show Table">

</form>

</body>

</html>

**multiplication\_table.php**

<?php

// Check if the form has been submitted

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

// Get the integer from the user input

$number = intval($\_POST['number']);

// Display the multiplication table for the entered number

echo "<h2>Multiplication Table of $number</h2>";

echo "<table border='1' cellpadding='10'>";

echo "<tr><th>Multiplier</th><th>Result</th></tr>";

// Loop to generate and display the table

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

$result = $number \* $i;

echo "<tr><td>$number x $i</td><td>$result</td></tr>";

}

echo "</table>";

}

?>

**OR:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Change Text Color</title>

</head>

<body>

<h2>Change Text Color</h2>

<!-- Color Picker Input -->

<label for="colorPicker">Choose a color:</label>

<input type="color" id="colorPicker">

<!-- Button to trigger color change -->

<button onclick="changeTextColor()">Change Text Color</button>

<!-- Paragraph to change color -->

<p id="textParagraph">This is a sample text. The color of this text will change when the button is clicked.</p>

<script>

// JavaScript function to change the text color

function changeTextColor() {

// Get the selected color value

var selectedColor = document.getElementById("colorPicker").value;

// Change the color of the text inside the <p> element

document.getElementById("textParagraph").style.color = selectedColor;

}

</script>

</body>

</html>

**Q2:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>ITFEST 2025 Student Registration</title>

<style>

body {

font-family: sans-serif;

background-color: #f4f4f4;

display: flex;

justify-content: center;

align-items: center;

min-height: 100vh;

margin: 0;

}

.registration-form {

background-color: #fff;

padding: 30px;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

width: 400px;

}

.form-group {

margin-bottom: 20px;

}

label {

display: block;

margin-bottom: 5px;

font-weight: bold;

}

input[type="text"],

input[type="tel"],

select {

width: calc(100% - 12px);

padding: 8px;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

}

.radio-group {

display: flex;

gap: 15px;

}

.radio-group label {

font-weight: normal;

}

.button-group {

margin-top: 20px;

display: flex;

gap: 10px;

justify-content: flex-end;

}

button {

padding: 10px 20px;

border: none;

border-radius: 4px;

cursor: pointer;

font-size: 16px;

}

button[type="submit"] {

background-color: #007bff;

color: white;

}

button[type="reset"] {

background-color: #6c757d;

color: white;

}

</style>

</head>

<body>

<div class="registration-form">

<h2>ITFEST 2025 Student Registration</h2>

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

<div class="form-group">

<label for="student\_name">Student Name:</label>

<input type="text" id="student\_name" name="student\_name" required>

</div>

<div class="form-group">

<label>Gender:</label>

<div class="radio-group">

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

<label for="male">Male</label>

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

<label for="female">Female</label>

<input type="radio" id="other" name="gender" value="Other" required>

<label for="other">Other</label>

</div>

</div>

<div class="form-group">

<label for="mobile">Mobile Number:</label>

<input type="tel" id="mobile" name="mobile" pattern="[0-9]{10}" placeholder="Enter 10-digit mobile number" required>

</div>

<div class="form-group">

<label for="college\_name">College Name:</label>

<input type="text" id="college\_name" name="college\_name" required>

</div>

<div class="form-group">

<label for="game\_chosen">Game Chosen:</label>

<select id="game\_chosen" name="game\_chosen" required>

<option value="">-- Select a Game --</option>

<option value="Coding Competition">Coding Competition</option>

<option value="Web Development">Web Development</option>

<option value="Gaming">Gaming</option>

<option value="Robotics">Robotics</option>

<option value="Cyber Security">Cyber Security</option>

</select>

</div>

<div class="form-group">

<label for="payment\_mode">Payment Mode:</label>

<select id="payment\_mode" name="payment\_mode" required>

<option value="">-- Select Payment Mode --</option>

<option value="Online">Online</option>

<option value="Cash">Cash</option>

</select>

</div>

<div class="form-group">

<label for="payment">Payment Amount:</label>

<input type="text" id="payment" name="payment" placeholder="Enter amount" required>

</div>

<div class="button-group">

<button type="submit">Submit</button>

<button type="reset">Reset</button>

</div>

</form>

</div>

</body>

</html>

**Slip21:**

**Q1:** **Q.1 Design Following list using HTML. [10] A. MIT ACSC a. Computer Applications i. BCA ii. BBA-CA iii. MSc-CA b. Computer Science i. BSc-CS ii. BSc-IT**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Course List</title>

</head>

<body>

<h2>MIT ACSC Courses</h2>

<ol type="A">

<li>MIT ACSC

<ul>

<li>Computer Applications

<ol type="i">

<li>BCA</li>

<li>BBA-CA</li>

<li>MSc-CA</li>

</ol>

</li>

<li>Computer Science

<ol type="i">

<li>BSc-CS</li>

<li>BSc-IT</li>

</ol>

</li>

</ul>

</li>

</ol>

</body>

</html>

**OR:Write a JavaScript program to print the reverse of a number**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Reverse a Number</title>

</head>

<body>

<h2>Reverse a Number</h2>

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

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

<button onclick="reverseNumber()">Reverse</button>

<p><strong>Reversed Number: </strong><span id="reversedNumber"></span></p>

<script>

function reverseNumber() {

// Get the input number from the user

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

// Reverse the number

var reversed = number.toString().split('').reverse().join('');

// Display the reversed number

document.getElementById("reversedNumber").innerText = reversed;

}

</script>

</body>

</html>

**Q2:**

**Databse:**

CREATE TABLE employee (

Eid INT PRIMARY KEY,

Fname VARCHAR(50),

Lname VARCHAR(50),

Hometown VARCHAR(50),

Designation VARCHAR(50)

);

**Html file**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Employee Information</title>

</head>

<body>

<h2>Employee Information</h2>

<button onclick="fetchEmployeeData()">Load Employee Data</button>

<br><br>

<table border="1" id="employeeTable">

<thead>

<tr>

<th>Eid</th>

<th>First Name</th>

<th>Last Name</th>

<th>Hometown</th>

<th>Designation</th>

</tr>

</thead>

<tbody>

<!-- Employee data will be inserted here by AJAX -->

</tbody>

</table>

<script>

function fetchEmployeeData() {

var xhr = new XMLHttpRequest(); // Create a new XMLHttpRequest object

// Set up the request

xhr.open("GET", "fetch\_employee.php", true);

// Define what happens when the request is completed successfully

xhr.onload = function() {

if (xhr.status == 200) {

var employeeData = JSON.parse(xhr.responseText); // Parse the JSON response

var tableBody = document.getElementById("employeeTable").getElementsByTagName('tbody')[0];

tableBody.innerHTML = ""; // Clear any existing rows

// Loop through the employee data and add rows to the table

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

var row = tableBody.insertRow();

row.insertCell(0).textContent = employeeData[i].Eid;

row.insertCell(1).textContent = employeeData[i].Fname;

row.insertCell(2).textContent = employeeData[i].Lname;

row.insertCell(3).textContent = employeeData[i].Hometown;

row.insertCell(4).textContent = employeeData[i].Designation;

}

}

};

// Send the AJAX request

xhr.send();

}

</script>

</body>

</html>

**fetch\_employee.php**

<?php

// Database credentials

$host = 'localhost'; // or your host

$user = 'root'; // Database username

$password = ''; // Database password

$dbname = 'company\_db'; // Database name

// Create a connection to the database

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

// Check for connection errors

if ($conn->connect\_error) {

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

}

// SQL query to fetch employee data

$sql = "SELECT Eid, Fname, Lname, Hometown, Designation FROM employee";

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

// Check if there are any records

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

$employees = [];

// Fetch each row and store it in an array

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

$employees[] = $row;

}

// Return the data as JSON

echo json\_encode($employees);

} else {

echo json\_encode([]); // No records found

}

// Close the database connection

$conn->close();

?>

**Slip 22**

**Q1:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Train Schedule</title>

<style>

table, th, td {

border: 1px solid black;

border-collapse: collapse;

padding: 8px;

}

th[colspan="2"] {

text-align: center;

}

</style>

</head>

<body>

<table>

<thead>

<tr>

<th>Train name</th>

<th>Starting place</th>

<th>Destination place</th>

<th colspan="2">Time</th>

<th>Fare</th>

</tr>

<tr>

<th></th>

<th></th>

<th></th>

<th>Arrival</th>

<th>Departure</th>

<th></th>

</tr>

</thead>

<tbody>

<tr>

<td>Rajdhani exp</td>

<td>Delhi</td>

<td>Mumbai</td>

<td>1:00</td>

<td>11:00</td>

<td>Rs.255</td>

</tr>

<tr>

<td>Chennai exp</td>

<td>Pune</td>

<td>Chennai</td>

<td>5:00</td>

<td>17:00</td>

<td>Rs.500</td>

</tr>

</tbody>

</table>

</body>

</html>

**OR:** **Write a JavaScript program that accepts a string from the user and counts how many vowels (a, e, i, o, u) are present in the string. Display the result.**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Count Vowels</title>

</head>

<body>

<h2>Count Vowels in a String</h2>

<label for="inputString">Enter a string:</label>

<input type="text" id="inputString" required>

<button onclick="countVowels()">Count Vowels</button>

<p><strong>Number of vowels: </strong><span id="vowelCount"></span></p>

<script>

function countVowels() {

// Get the input string from the user

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

// Initialize the vowel count to 0

var vowelCount = 0;

// Convert the input string to lowercase for case-insensitive comparison

var lowerCaseString = inputString.toLowerCase();

// Loop through each character of the string and check if it's a vowel

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

if (lowerCaseString[i] === 'a' || lowerCaseString[i] === 'e' || lowerCaseString[i] === 'i' || lowerCaseString[i] === 'o' || lowerCaseString[i] === 'u') {

vowelCount++;

}

}

// Display the result

document.getElementById("vowelCount").innerText = vowelCount;

}

</script>

</body>

</html>

**Q2:** **Write a AJAX program to search Tutorial name according to the character typed in textbox and display list using array**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Search Tutorial</title>

</head>

<body>

<h2>Search Tutorials</h2>

<label for="searchBox">Type to search tutorials:</label>

<input type="text" id="searchBox" onkeyup="searchTutorials()" placeholder="Search tutorials...">

<ul id="tutorialList">

<!-- Matching tutorials will be displayed here -->

</ul>

<script>

// Sample array of tutorial names

const tutorials = [

"JavaScript Basics",

"HTML5 & CSS3",

"PHP for Beginners",

"AJAX Introduction",

"React.js Basics",

"Node.js for Backend",

"JavaScript ES6 Features",

"PHP & MySQL"

];

// Function to perform AJAX search and display results

function searchTutorials() {

// Get the search term entered by the user

const searchTerm = document.getElementById('searchBox').value.toLowerCase();

// Create an XMLHttpRequest object (AJAX)

var xhr = new XMLHttpRequest();

// Prepare the request (we are not using any server-side PHP here, it's a client-side simulation)

xhr.open('GET', 'data:application/json,' + JSON.stringify(tutorials), true);

// Define what happens when the response is received

xhr.onload = function() {

if (xhr.status == 200) {

// Parse the received JSON data (the tutorials array)

const tutorialArray = JSON.parse(xhr.responseText);

// Filter tutorials based on the search term

const filteredTutorials = tutorialArray.filter(tutorial => tutorial.toLowerCase().includes(searchTerm));

// Display the filtered tutorials in the list

displayResults(filteredTutorials);

}

};

// Send the AJAX request (we are using an inline data URL as the "server" for simulation)

xhr.send();

}

// Function to display the filtered tutorials in the list

function displayResults(filteredTutorials) {

// Get the <ul> element where results will be displayed

const list = document.getElementById('tutorialList');

// Clear any previous results

list.innerHTML = '';

// If there are results, create list items for each

if (filteredTutorials.length > 0) {

filteredTutorials.forEach(tutorial => {

const listItem = document.createElement('li');

listItem.textContent = tutorial;

list.appendChild(listItem);

});

} else {

// If no results, show a message

const noResultItem = document.createElement('li');

noResultItem.textContent = "No tutorials found.";

list.appendChild(noResultItem);

}

}

</script>

</body>

</html>

**Slip23:**

**Q1:** **Q.1 Design Following list using HTML. [10] A. Fruits o Apple o Grapes o Jackfruit B. Vegetable o Tomato o Cabbage o Beans**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Fruits and Vegetables List</title>

</head>

<body

<h2>Fruits and Vegetables List</h2>

<ol type="A">

<li>Fruits

<ul>

<li>Apple</li>

<li>Grapes</li>

<li>Jackfruit</li>

</ul>

</li>

<li>Vegetables

<ul>

<li>Tomato</li>

<li>Cabbage</li>

<li>Beans</li>

</ul>

</li>

</ol>

</body>

</html>

**Q2:**

**contact.dat**

1, John Doe, 1234567890, 9876543210, Friend

2, Alice Smith, 2345678901, 8765432109, Family

3, Bob Johnson, 3456789012, 7654321098, Colleague

**Html:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Contact Information</title>

</head>

<body>

<h2>Contact Information</h2>

<button onclick="loadContacts()">Print Contact List</button>

<br><br>

<table border="1" id="contactTable">

<thead>

<tr>

<th>Sr No</th>

<th>Name</th>

<th>Residence Number</th>

<th>Mobile Number</th>

<th>Context/Relation</th>

</tr>

</thead>

<tbody>

<!-- Contact data will be inserted here -->

</tbody>

</table>

<script>

// Function to load contact data using AJAX

function loadContacts() {

// Create a new XMLHttpRequest object

var xhr = new XMLHttpRequest();

// Set up the request to get the data from the PHP script

xhr.open("GET", "get\_contacts.php", true);

// Define the onload function to process the response

xhr.onload = function() {

if (xhr.status == 200) {

// Parse the received JSON data

var contactData = JSON.parse(xhr.responseText);

// Get the table body element

var tableBody = document.getElementById('contactTable').getElementsByTagName('tbody')[0];

// Clear any existing data

tableBody.innerHTML = "":

// Loop through the contact data and display it in the table

contactData.forEach(function(contact) {

var row = tableBody.insertRow();

row.insertCell(0).textContent = contact.srno;

row.insertCell(1).textContent = contact.name;

row.insertCell(2).textContent = contact.residence\_number;

row.insertCell(3).textContent = contact.mobile\_number;

row.insertCell(4).textContent = contact.context\_relation;

});

}

};

// Send the request

xhr.send();

}

</script>

</body>

</html>

**get\_contacts.php**

<?php

// Define the path to the contact.dat file

$file = 'contact.dat';

// Check if the file exists

if (file\_exists($file)) {

// Open the file for reading

$fileContent = file($file, FILE\_IGNORE\_NEW\_LINES | FILE\_SKIP\_EMPTY\_LINES);

// Initialize an array to hold the contacts

$contacts = [];

// Loop through each line of the file

foreach ($fileContent as $line) {

// Split the line into columns based on comma separator

$columns = explode(',', $line);

// Create an associative array for each contact record

$contact = [

'srno' => trim($columns[0]),

'name' => trim($columns[1]),

'residence\_number' => trim($columns[2]),

'mobile\_number' => trim($columns[3]),

'context\_relation' => trim($columns[4])

];

// Add the contact to the array

$contacts[] = $contact;

}

// Return the contacts array as JSON

echo json\_encode($contacts);

} else {

echo json\_encode([]);

}

?>

**Slip24:**

**Q1:** **Q.1 Write an External Style sheet for the following styles and implement it in HTML file.[10] Style 1 - Puria, 18pt, Bold, Center, Red (for headings) Style 2 – Arial, 12pt, First line indent 25px, Justify, Blue (for Paragraphs)**

**styles.css**

/\* Style 1: For headings \*/

h1, h2, h3 {

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

font-size: 18pt;

font-weight: bold;

text-align: center;

color: red;

}

/\* Style 2: For paragraphs \*/

p {

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

font-size: 12pt;

text-indent: 25px;

text-align: justify;

color: blue;

}

**index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Styled Page</title>

<!-- Link to the external CSS file -->

<link rel="stylesheet" href="styles.css">

</head>

<body>

<!-- Headings styled with Style 1 -->

<h1>This is a Heading 1</h1>

<h2>This is a Heading 2</h2>

<h3>This is a Heading 3</h3>

<!-- Paragraphs styled with Style 2 -->

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur non ligula nec elit sodales ullamcorper. Aenean consectetur, nulla eget fermentum auctor, purus eros bibendum ligula, ac feugiat justo purus ac nisi.</p>

<p>Suspendisse potenti. Integer condimentum, turpis at malesuada viverra, orci enim malesuada erat, ut pretium nulla nulla nec augue. Proin vulputate, leo eget vulputate efficitur, libero sapien convallis odio, nec tincidunt turpis ipsum id odio.</p>

</body>

</html>

**Q2:** **Q.2 Write a PHP script to generate an XML in the following format in php. Shreya Ghoshal 2010 Arijit Singh 2016**

<?php

// Create a new DOMDocument object

$xml = new DOMDocument("1.0", "ISO-8859-1");

// Create the root element <cd\_catalog>

$cdCatalog = $xml->createElement("cd\_catalog");

$xml->appendChild($cdCatalog);

// Create the first <cd> element

$cd1 = $xml->createElement("cd");

// Create and append the <title> element for the first cd

$title1 = $xml->createElement("title", "Romantic Songs");

$cd1->appendChild($title1);

// Create and append the <artist> element for the first cd

$artist1 = $xml->createElement("artist", "Shreya Ghoshal");

$cd1->appendChild($artist1);

// Create and append the <year> element for the first cd

$year1 = $xml->createElement("year", "2010");

$cd1->appendChild($year1);

// Append the first <cd> element to the <cd\_catalog>

$cdCatalog->appendChild($cd1);

// Create the second <cd> element

$cd2 = $xml->createElement("cd");

// Create and append the <title> element for the second cd

$title2 = $xml->createElement("title", "Solo Songs");

$cd2->appendChild($title2);

// Create and append the <artist> element for the second cd

$artist2 = $xml->createElement("artist", "Arijit Singh");

$cd2->appendChild($artist2);

// Create and append the <year> element for the second cd

$year2 = $xml->createElement("year", "2016");

$cd2->appendChild($year2);

// Append the second <cd> element to the <cd\_catalog>

$cdCatalog->appendChild($cd2);

// Set the header content type as XML

header("Content-Type: text/xml");

// Output the generated XML

echo $xml->saveXML();

?>

**Slip 25**

**Q1:** **Q.1 Design Following list using HTML. [10] I. Fruits ♣ Apple ♣ Grapes ♣ Jackfruit II. Vegetable ♣ Tomato ♣ Cabbage ♣ Beans**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Fruits and Vegetables</title>

</head>

<body>

<h1>Fruits and Vegetables</h1>

<ul>

<li><strong>Fruits</strong>

<ul>

<li>Apple</li>

<li>Grapes</li>

<li>Jackfruit</li>

</ul>

</li>

<li><strong>Vegetable</strong>

<ul>

<li>Tomato</li>

<li>Cabbage</li>

<li>Beans</li>

</ul>

</li>

</ul>

</body>

</html>

**Q.2 Write a PHP Script to read ‘cd\_catalog.xml’ file and print specific content of a file using DOMDocument parser. ‘cd\_catalog.xml’ file should contain the following information with at least 5 records with values. CD\_Catalog: CD No, CD Title, Artist Name, Year**

**cd\_catalog.xml**

<?xml version="1.0" encoding="ISO-8859-1"?>

<cd\_catalog>

<cd>

<cd\_no>1</cd\_no>

<cd\_title>Romantic Songs</cd\_title>

<artist\_name>Shreya Ghoshal</artist\_name>

<year>2010</year>

</cd>

<cd>

<cd\_no>2</cd\_no>

<cd\_title>Solo Songs</cd\_title>

<artist\_name>Arijit Singh</artist\_name>

<year>2016</year>

</cd>

<cd>

<cd\_no>3</cd\_no>

<cd\_title>Pop Hits</cd\_title>

<artist\_name>Ariana Grande</artist\_name>

<year>2018</year>

</cd>

<cd>

<cd\_no>4</cd\_no>

<cd\_title>Rock Legends</cd\_title>

<artist\_name>Queen</artist\_name>

<year>1995</year>

</cd>

<cd>

<cd\_no>5</cd\_no>

<cd\_title>Classical Music</cd\_title>

<artist\_name>Yo Yo Ma</artist\_name>

<year>2005</year>

</cd>

</cd\_catalog>

**read\_cd\_catalog.php**

<?php

// Load the XML file using DOMDocument

$xml = new DOMDocument();

$xml->load("cd\_catalog.xml"); // Load the XML file

// Get the root element <cd\_catalog>

$cdCatalog = $xml->getElementsByTagName("cd\_catalog")->item(0);

// Get all the <cd> elements within <cd\_catalog>

$cds = $cdCatalog->getElementsByTagName("cd");

// Loop through each <cd> element and retrieve the content

echo "<h2>CD Catalog:</h2>";

echo "<table border='1' cellpadding='5'>";

echo "<tr><th>CD No</th><th>CD Title</th><th>Artist Name</th><th>Year</th></tr>";

foreach ($cds as $cd) {

// Get the individual elements for CD No, Title, Artist Name, and Year

$cdNo = $cd->getElementsByTagName("cd\_no")->item(0)->nodeValue;

$cdTitle = $cd->getElementsByTagName("cd\_title")->item(0)->nodeValue;

$artistName = $cd->getElementsByTagName("artist\_name")->item(0)->nodeValue;

$year = $cd->getElementsByTagName("year")->item(0)->nodeValue;

// Display the data in table rows

echo "<tr>

<td>$cdNo</td>

<td>$cdTitle</td>

<td>$artistName</td>

<td>$year</td>

</tr>";

}

echo "</table>";

?>

**Slip26**

**Q1: Q.1 Write an Internal Style sheet for the following styles and implement it in HTML file. [10] Style 1 - Puria, 18pt, Bold, Center, Red Style 2 - Comic Sans Ms, 14pt, Justify, Blue**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Styled Page</title>

<!-- Internal Style Sheet -->

<style>

/\* Style 1: For headings \*/

h1, h2, h3 {

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

font-size: 18pt;

font-weight: bold;

text-align: center;

color: red;

}

/\* Style 2: For paragraphs \*/

p {

font-family: 'Comic Sans MS', sans-serif;

font-size: 14pt;

text-align: justify;

color: blue;

}

</style>

</head>

<body>

<!-- Headings styled with Style 1 -->

<h1>This is a Heading 1</h1>

<h2>This is a Heading 2</h2>

<h3>This is a Heading 3</h3>

<!-- Paragraph styled with Style 2 -->

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Curabitur non ligula nec elit sodales ullamcorper. Aenean consectetur, nulla eget fermentum auctor, purus eros bibendum ligula, ac feugiat justo purus ac nisi.</p>

<p>Suspendisse potenti. Integer condimentum, turpis at malesuada viverra, orci enim malesuada erat, ut pretium nulla nulla nec augue. Proin vulputate, leo eget vulputate efficitur, libero sapien convallis odio, nec tincidunt turpis ipsum id odio.</p>

</body>

</html>

**Q.2 Write a PHP script to create an XML file as ‘Student.xml’. The element of this xml file are as follows:**

<?php

// Create a new XML document

$dom = new DOMDocument('1.0', 'UTF-8');

// Create the root element <Class>

$class = $dom->createElement('Class');

$dom->appendChild($class);

// Create the <Student> element with attributes

$student = $dom->createElement('Student');

$student->setAttribute('RollNo', '1');

$student->setAttribute('Gender', 'Male');

$class->appendChild($student);

// Create the <Name> element and set its text content

$name = $dom->createElement('Name', 'John Doe'); // Added some default data

$student->appendChild($name);

// Create the <Email> element and set its text content

$email = $dom->createElement('Email', 'john.doe@example.com'); //Added default email.

$student->appendChild($email)

//save the xml

$dom->save('Student.xml');

// Output a success message

echo "XML file 'Student.xml' created successfully!";

?>

**Slip 27:**

**Q1:** **Q.1 Design Following list using HTML. [10] A. Maharshtra a. Pune i. Shirur ii. Rajgurunagar b. Ahilya Nagar i. Sangamner ii. Kopargaon**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Location List</title>

</head>

<body>

<h1>Location List</h1>

<ul>

<li><strong>Maharashtra</strong>

<ul>

<li>Pune

<ol>

<li>Shirur</li>

<li>Rajgurunagar</li>

</ol>

</li>

<li>Ahilya Nagar

<ol>

<li>Sangamner</li>

<li>Kopargaon</li>

</ol>

</li>

</ul>

</li>

</ul>

</body>

</html>

**Q.2 Write a PHP program to define Interface shape which has two method as area() and volume(). Define a constant PI. Create a class Cylinder implement this interface and calculate area and Volume**

<?php

// Define the interface Shape with two methods: area and volume

interface Shape {

const PI = 3.14159; // Define a constant PI

public function area(); // Method to calculate the area

public function volume(); // Method to calculate the volume

}

// Create a class Cylinder that implements the Shape interface

class Cylinder implements Shape {

// Properties for the cylinder

private $radius;

private $height;

// Constructor to initialize radius and height

public function \_\_construct($radius, $height) {

$this->radius = $radius;

$this->height = $height;

}

// Method to calculate the area of the cylinder

public function area() {

// Area of the cylinder: 2 \* PI \* radius \* (radius + height)

return 2 \* Shape::PI \* $this->radius \* ($this->radius + $this->height);

}

// Method to calculate the volume of the cylinder

public function volume() {

// Volume of the cylinder: PI \* radius^2 \* height

return Shape::PI \* pow($this->radius, 2) \* $this->height;

}

}

// Create an object of the Cylinder class

$cylinder = new Cylinder(7, 10); // Example: radius = 7, height = 10

// Display the area and volume of the cylinder

echo "Area of the Cylinder: " . $cylinder->area() . " square units<br>";

echo "Volume of the Cylinder: " . $cylinder->volume() . " cubic units<br>";

?>

**Slip28:**

**Q1:** **Q.1 Write a External Style sheet for the following styles and implement it in HTML file. [10] Style 1 - Comic Sans Ms, 14pt, Justify, Blue Style 2 - Border - Solid, Padding - 20px, Margin - 30 px, Backgr Color - sky blue**

**style.css**

**/**\* Style 1: For paragraphs \*/

p {

font-family: 'Comic Sans MS', sans-serif;

font-size: 14pt;

text-align: justify;

color: blue;

}

/\* Style 2: For notes (div element) \*/

.note {

border: solid 2px black; /\* Solid border \*/

padding: 20px; /\* Padding of 20px \*/

margin: 30px; /\* Margin of 30px \*/

background-color: skyblue; /\* Sky blue background color \*/

}

**index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Styled Page</title>

<!-- Link to the External Style Sheet -->

<link rel="stylesheet" href="style.css">

</head>

<body>

<!-- Applying Style 1 (Comic Sans MS, 14pt, Justify, Blue) -->

<p>

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

</p>

<!-- Applying Style 2 (Border, Padding, Margin, Background Color) -->

<div class="note">

<h3>Important Note</h3>

<p>This is a note with a border, padding, margin, and sky blue background color.</p>

</div>

</body>

</html>

**Q.2 Write a PHP script for the following: Design a form to accept the details of 5 different Grosary items, such as item code, item name, units sold, rate. Display the bill in the tabular format along with total amount of bill. Use only 4 text boxes. (Hint : Use of explode function.**

**index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Grocery Bill</title>

</head>

<body>

<h2>Enter Details of 5 Grocery Items</h2>

<!-- Form to enter the details of the 5 items -->

<form method="POST" action="process.php">

<label for="items">Enter item details (code, name, units sold, rate): </label><br>

<textarea name="items" id="items" rows="5" cols="50" placeholder="Item details in the format: code,name,units sold,rate"></textarea><br><br>

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

</form>

</body>

</html>

**process.php**

<?php

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

// Get the input data from the form

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

// Explode the input into individual items based on line breaks

$item\_array = explode("\n", $items);

// Initialize total bill amount

$total\_amount = 0;

echo "<h2>Grocery Bill</h2>";

echo "<table border='1' cellpadding='10'>

<tr>

<th>Item Code</th>

<th>Item Name</th>

<th>Units Sold</th>

<th>Rate</th>

<th>Total</th>

</tr>";

// Loop through each item, process it, and calculate the total

foreach ($item\_array as $item) {

// Skip empty lines

if (empty(trim($item))) {

continue;

// Explode each item detail into separate components (code, name, units sold, rate)

$item\_details = explode(",", $item);

// Check if exactly 4 values are present (code, name, units, rate)

if (count($item\_details) == 4) {

$item\_code = trim($item\_details[0]);

$item\_name = trim($item\_details[1]);

$units\_sold = trim($item\_details[2]);

$rate = trim($item\_details[3]);

// Calculate total price for this item

$total\_price = $units\_sold \* $rate;

// Add to total bill

$total\_amount += $total\_price;

// Display the item in the table

echo "<tr>

<td>$item\_code</td>

<td>$item\_name</td>

<td>$units\_sold</td>

<td>$rate</td>

<td>$total\_price</td>

</tr>";

}

}

// Display the total amount

echo "<tr>

<td colspan='4' style='text-align: right;'><strong>Total Amount</strong></td>

<td><strong>$total\_amount</strong></td>

</tr>";

echo "</table>";

}

?>

**Slip 29:**

**Q1:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>List of Books</title>

<style>

table, th, td {

border: 1px solid black;

border-collapse: collapse;

padding: 8px;

}

th[colspan="2"] {

text-align: center;

}

</style>

</head>

<body>

<table>

<thead>

<tr>

<th colspan="4">List of Books</th>

</tr>

<tr>

<th>Book No</th>

<th>Name</th>

<th>Author</th>

<th colspan="2">Price</th>

</tr>

<tr>

<th></th>

<th></th>

<th></th>

<th>Rs.</th>

<th>Paisa</th>

</tr>

</thead>

<tbody>

<tr>

<td>1</td>

<td>Data Structure</td>

<td>Balguruswami</td>

<td>350</td>

<td>50</td>

</tr>

<tr>

<td>2</td>

<td>C programming</td>

<td>Yeshwant Kanitkar</td>

<td>200</td>

<td>0</td>

</tr>

</tbody>

</table>

</body>

</html>

**OR:Write a JavaScript program that displays the current date and time in the format YYYYMM-DD HH:MM:SS in an HTML element when a button is clicked.**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Current Date and Time</title>

<script>

function displayDateTime() {

// Create a new Date object

var currentDate = new Date();

// Get the year, month, day, hours, minutes, and seconds

var year = currentDate.getFullYear();

var month = (currentDate.getMonth() + 1).toString().padStart(2, '0'); // Months are 0-based

var day = currentDate.getDate().toString().padStart(2, '0');

var hours = currentDate.getHours().toString().padStart(2, '0');

var minutes = currentDate.getMinutes().toString().padStart(2, '0');

var seconds = currentDate.getSeconds().toString().padStart(2, '0');

// Format the date and time in YYYY-MM-DD HH:MM:SS format

var formattedDateTime = year + '-' + month + '-' + day + ' ' + hours + ':' + minutes + ':' + seconds;

// Display the result in the element with id 'dateTimeDisplay'

document.getElementById('dateTimeDisplay').innerText = formattedDateTime;

}

</script>

</head>

<body>

<h1>Click the button to display the current date and time:</h1>

<!-- Button to trigger the function -->

<button onclick="displayDateTime()">Show Current Date and Time</button>

<!-- Element where the formatted date and time will be displayed -->

<p id="dateTimeDisplay"></p>

</body>

</html>

**Q2:** **Q.2 Consider the following entities and their relationship. Owner (o\_id, oname, mobile, city) Property (p\_id, pname, ptype, parea, pcity) Create a RDB in 3NF for above, add 2 records of Owner and 2 records of Property for each Owner and solve the following. Using the above database write a script in PHP to print the Property details of given Owner in tabular format. Accept Owner name from user**

**database**

-- Create Owner table

CREATE TABLE Owner (

o\_id INT AUTO\_INCREMENT PRIMARY KEY,

oname VARCHAR(100),

mobile VARCHAR(15),

city VARCHAR(50)

);

-- Create Property table

CREATE TABLE Property (

p\_id INT AUTO\_INCREMENT PRIMARY KEY,

pname VARCHAR(100),

ptype VARCHAR(50),

parea INT,

pcity VARCHAR(50),

o\_id INT,

FOREIGN KEY (o\_id) REFERENCES Owner(o\_id)

);

-- Insert data into Owner table

INSERT INTO Owner (oname, mobile, city) VALUES

('John Doe', '1234567890', 'New York'),

('Jane Smith', '9876543210', 'Los Angeles');

-- Insert data into Property table

INSERT INTO Property (pname, ptype, parea, pcity, o\_id) VALUES

('Green Villa', 'House', 2500, 'New York', 1),

('Blue Apartment', 'Apartment', 1200, 'New York', 1),

('Sunny Bungalow', 'House', 1800, 'Los Angeles', 2),

('Ocean View', 'Apartment', 900, 'Los Angeles', 2);

**property\_details.php**

<?php

// Database connection

$servername = "localhost";

$username = "root"; // Change if you use a different username

$password = ""; // Change if you use a different password

$dbname = "grocery\_db"; // Change to your database name

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

// Check connection

if ($conn->connect\_error) {

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

}

// Accept Owner's name from user

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

$owner\_name = $\_POST['oname'];

// Query to get properties based on the owner's name

$sql = "SELECT p.pname, p.ptype, p.parea, p.pcity

FROM Property p

INNER JOIN Owner o ON p.o\_id = o.o\_id

WHERE o.oname = ?";

$stmt = $conn->prepare($sql);

$stmt->bind\_param("s", $owner\_name);

$stmt->execute();

$result = $stmt->get\_result();

// Check if properties are found

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

// Display properties in a table

echo "<h2>Properties of Owner: " . $owner\_name . "</h2>";

echo "<table border='1' cellpadding='10'>

<tr>

<th>Property Name</th>

<th>Property Type</th>

<th>Property Area (sq ft)</th>

<th>Property City</th>

</tr>";

// Output each property

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

echo "<tr>

<td>" . $row['pname'] . "</td>

<td>" . $row['ptype'] . "</td>

<td>" . $row['parea'] . "</td>

<td>" . $row['pcity'] . "</td>

</tr>";

}

echo "</table>";

} else {

echo "No properties found for the owner: " . $owner\_name;

}

$stmt->close();

}

$conn->close();

?>

<!-- HTML form to accept owner's name -->

<form method="POST" action="property\_details.php">

<label for="oname">Enter Owner's Name:</label>

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

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

</form>

**Slip 30**

**Q1:** **Q.1 Write an External Style sheet for the following styles and implement it in HTML file.[10] Style 1 - Puria, 18pt, Bold, Center, Magenta (for heading) Style 2 – First line indent 25px, Arial, 12pt, Justify, Blue (for Paragraph**

**styles.css**

/\* Style 1: Heading \*/

h1 {

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

font-size: 18pt;

font-weight: bold;

text-align: center;

color: magenta;

}

/\* Style 2: Paragraph \*/

p {

text-indent: 25px;

font-family: Arial, sans-serif;

font-size: 12pt;

text-align: justify;

color: blue;

}

**index.html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Styled Page</title>

<!-- Link to the external stylesheet -->

<link rel="stylesheet" href="styles.css">

</head>

<body>

<!-- Heading with Style 1 -->

<h1>Welcome to Our Website!</h1>

<!-- Paragraph with Style 2 -->

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce volutpat felis ut risus malesuada, vel tempor sapien luctus. Integer venenatis tortor vitae lacus convallis, non eleifend sapien tincidunt. Nullam auctor interdum libero vel gravida.</p>

</body>

</html>

**Q.2 Write a PHP script to change the preference of your web page like font style, font, size, font color, background color using cookie. Display selected settings on the next page and actual implementation (with new settings) on the third page.**

**preferences\_form.php**

<?php

// Start the session (optional if using session variables)

session\_start();

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Set Preferences</title>

</head>

<body>

<h2>Select Your Preferences</h2>

<form method="post" action="set\_preferences.php">

<label for="fontStyle">Font Style:</label>

<select id="fontStyle" name="fontStyle">

<option value="Arial">Arial</option>

<option value="Times New Roman">Times New Roman</option>

<option value="Courier New">Courier New</option>

</select>

<br><br>

<label for="fontSize">Font Size:</label>

<select id="fontSize" name="fontSize">

<option value="14px">14px</option>

<option value="18px">18px</option>

<option value="22px">22px</option>

</select>

<br><br>

<label for="fontColor">Font Color:</label>

<input type="color" id="fontColor" name="fontColor" value="#000000">

<br><br>

<label for="bgColor">Background Color:</label>

<input type="color" id="bgColor" name="bgColor" value="#FFFFFF">

<br><br>

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

</form>

</body>

</html>

**set\_preferences.php**

<?php

// Start the session (optional if using session variables)

session\_start();

// Set the cookies based on form input

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

// Set cookie expiration to 1 year

setcookie("fontStyle", $\_POST["fontStyle"], time() + (365 \* 24 \* 60 \* 60), "/");

setcookie("fontSize", $\_POST["fontSize"], time() + (365 \* 24 \* 60 \* 60), "/");

setcookie("fontColor", $\_POST["fontColor"], time() + (365 \* 24 \* 60 \* 60), "/");

setcookie("bgColor", $\_POST["bgColor"], time() + (365 \* 24 \* 60 \* 60), "/");

// Redirect to the next page to display the settings

header("Location: display\_preferences.php");

exit();

}

**display\_preferences.php**

<?php

// Start the session (optional if using session variables)

session\_start();

// Retrieve the cookie values

$fontStyle = isset($\_COOKIE["fontStyle"]) ? $\_COOKIE["fontStyle"] : "Arial";

$fontSize = isset($\_COOKIE["fontSize"]) ? $\_COOKIE["fontSize"] : "14px";

$fontColor = isset($\_COOKIE["fontColor"]) ? $\_COOKIE["fontColor"] : "#000000";

$bgColor = isset($\_COOKIE["bgColor"]) ? $\_COOKIE["bgColor"] : "#FFFFFF";

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Display Preferences</title>

<style>

body {

font-family: <?php echo $fontStyle; ?>;

font-size: <?php echo $fontSize; ?>;

color: <?php echo $fontColor; ?>;

background-color: <?php echo $bgColor; ?>;

}

</style>

</head>

<body>

<h2>Your Selected Preferences</h2>

<p>Font Style: <?php echo $fontStyle; ?></p>

<p>Font Size: <?php echo $fontSize; ?></p>

<p>Font Color: <span style="color: <?php echo $fontColor; ?>;"><?php echo $fontColor; ?></span></p>

<p>Background Color: <span style="background-color: <?php echo $bgColor; ?>;"><?php echo $bgColor; ?></span></p

<a href="preferences\_form.php">Go Back to Change Preferences</a>

</body>

</html>