Q.1) Design a admission form. which should contains : text box, multiline text box, a table

which shows your academic record, radio button, check box, submit button etc.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Admission Form</title>

<style>

body {

font-family: Arial, sans-serif;

margin: 0;

padding: 0;

background-color: #f2f2f2;

}

.container {

max-width: 600px;

margin: 50px auto;

padding: 20px;

background-color: #fff;

border-radius: 10px;

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

}

h2 {

text-align: center;

}

input[type="text"],

textarea {

width: 100%;

padding: 10px;

margin-bottom: 10px;

border: 1px solid #ccc;

border-radius: 5px;

box-sizing: border-box;

}

table {

width: 100%;

margin-bottom: 20px;

border-collapse: collapse;

}

table, th, td {

border: 1px solid #ccc;

padding: 8px;

text-align: left;

}

input[type="radio"],

input[type="checkbox"] {

margin-right: 5px;

}

.btn-submit {

display: block;

width: 100%;

padding: 10px;

background-color: #4CAF50;

color: #fff;

border: none;

border-radius: 5px;

cursor: pointer;

font-size: 16px;

text-align: center;

}

</style>

</head>

<body>

<div class="container">

<h2>Admission Form</h2>

<form action="#" method="post">

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

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

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

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

<h3>Academic Record:</h3>

<table>

<tr>

<th>Year</th>

<th>Grade</th>

</tr>

<tr>

<td>2018</td>

<td><input type="text" name="grade1"></td>

</tr>

<tr>

<td>2019</td>

<td><input type="text" name="grade2"></td>

</tr>

<tr>

<td>2020</td>

<td><input type="text" name="grade3"></td>

</tr>

</table>

<h3>Gender:</h3>

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

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

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

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

<h3>Interests:</h3>

<input type="checkbox" id="sports" name="interests[]" value="sports">

<label for="sports">Sports</label>

<input type="checkbox" id="music" name="interests[]" value="music">

<label for="music">Music</label>

<input type="checkbox" id="art" name="interests[]" value="art">

<label for="art">Art</label>

<button type="submit" class="btn-submit">Submit</button>

</form>

</div>

</body>

</html>



Q.2) Write a PHP script for the following:

a) Design a form to accept two numbers from the users.

b) Give option to choose an arithmetic operation (use Radio Button).

c) Display the result on next form.

d) Use concept of default parameter.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Arithmetic Calculator</title>

</head>

<body>

<h2>Arithmetic Calculator</h2>

<?php

// Function to perform arithmetic operations

function calculate($num1, $num2, $operation = "+") {

switch ($operation) {

case "+":

return $num1 + $num2;

case "-":

return $num1 - $num2;

case "\*":

return $num1 \* $num2;

case "/":

if ($num2 != 0) {

return $num1 / $num2;

} else {

return "Division by zero error!";

}

default:

return "Invalid operation";

}

}

// Handle form submission

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

$num1 = $\_POST["num1"];

$num2 = $\_POST["num2"];

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

$result = calculate($num1, $num2, $operation);

echo "<h3>Result: $result</h3>";

}

?>

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

<label for="num1">Enter first number:</label>

<input type="number" name="num1" id="num1" required><br>

<label for="num2">Enter second number:</label>

<input type="number" name="num2" id="num2" required><br>

<label>Choose operation:</label><br>

<input type="radio" name="operation" value="+" checked>

<label for="+">Addition</label><br>

<input type="radio" name="operation" value="-">

<label for="-">Subtraction</label><br>

<input type="radio" name="operation" value="\*">

<label for="\*">Multiplication</label><br>

<input type="radio" name="operation" value="/">

<label for="/">Division</label><br>

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

</form>

</body>

</html>

Option 2:

<!DOCTYPE html>

<html>

<head>

<title>Calculator</title>

</head>

<body>

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

<label for="num1">Enter first number:</label>

<input type="text" id="num1" name="num1" required><br><br>

<label for="num2">Enter second number:</label>

<input type="text" id="num2" name="num2" required><br><br>

<input type="radio" id="add" name="operation" value="add" checked>

<label for="add">Addition</label><br>

<input type="radio" id="subtract" name="operation" value="subtract">

<label for="subtract">Subtraction</label><br>

<input type="radio" id="multiply" name="operation" value="multiply">

<label for="multiply">Multiplication</label><br>

<input type="radio" id="divide" name="operation" value="divide">

<label for="divide">Division</label><br><br>

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

</form>

</body>

</html>

And here's the PHP script calculator.php that processes the form and displays the result:

<!DOCTYPE html>

<html>

<head>

<title>Result</title>

</head>

<body>

<?php

$num1 = isset($\_POST['num1']) ? $\_POST['num1'] : 0;

$num2 = isset($\_POST['num2']) ? $\_POST['num2'] : 0;

$operation = isset($\_POST['operation']) ? $\_POST['operation'] : 'add';

$result = calculate($num1, $num2, $operation);

function calculate($num1, $num2, $operation = 'add') {

switch ($operation) {

case 'add':

return $num1 + $num2;

break;

case 'subtract':

return $num1 - $num2;

break;

case 'multiply':

return $num1 \* $num2;

break;

case 'divide':

if ($num2 != 0) {

return $num1 / $num2;

} else {

return "Cannot divide by zero";

}

break;

default:

return "Invalid operation";

}

}

echo "Result: " . $result;

?>

</body>

</html>

Slip 8

Q1. Write a PHP program to create a class temperature which contains data members as

Celsius and Fahrenheit . Create and Initialize all values of temperature object by using

parameterized constructor . Convert Celsius to Fahrenheit and Convert Fahrenheit to

Celsius using member functions. Display conversion on next page.

<!DOCTYPE html>

<html>

<head>

<title>Temperature Conversion</title>

</head>

<body>

<?php

class Temperature {

private $celsius;

private $fahrenheit;

public function \_\_construct($celsius, $fahrenheit) {

$this->celsius = $celsius;

$this->fahrenheit = $fahrenheit;

}

public function getCelsius() {

return $this->celsius;

}

public function getFahrenheit() {

return $this->fahrenheit;

}

public function setCelsius($celsius) {

$this->celsius = $celsius;

}

public function setFahrenheit($fahrenheit) {

$this->fahrenheit = $fahrenheit;

}

public function celsiusToFahrenheit() {

return ($this->celsius \* 9/5) + 32;

}

public function fahrenheitToCelsius() {

return ($this->fahrenheit - 32) \* 5/9;

}

}

// Creating temperature object and initializing values

$temp = new Temperature(0, 32);

// Displaying conversion

echo "<h2>Temperature Conversion</h2>";

echo "Celsius: " . $temp->getCelsius() . "<br>";

echo "Fahrenheit: " . $temp->getFahrenheit() . "<br>";

echo "Celsius to Fahrenheit: " . $temp->celsiusToFahrenheit() . "<br>";

echo "Fahrenheit to Celsius: " . $temp->fahrenheitToCelsius() . "<br>";

?>

</body>

</html>

Q.2) Write a script to create XML file ‘University.xml’. The element details of

‘University.xml’ Are as follows:

<Univ>

<Uname>------------</Uname>

<CITY>-----------------</CITY>

<Rank>----------------<</Rank>

</Univ>

a) Store the details of at least 3 universities.

b) Link the ‘University.xml’ file to CSS and get well formatted output as given below.

i) Uname : Color:black;

Font-family: copperplate G0thic Light;

Font size: 16pt; Font:Bold; ii) City and Rank Color:Yellow;

Font-family: Arial;

Font-size : 12pt;

Font: Bold;

<?php

// Create XML file

$xml = new DOMDocument('1.0', 'UTF-8');

$xml->formatOutput = true;

$univ = $xml->createElement('Univ');

$xml->appendChild($univ);

// University 1

$university1 = $xml->createElement('University');

$univ->appendChild($university1);

$uname1 = $xml->createElement('Uname', 'University 1');

$uname1->setAttribute('style', 'color:black; font-family: copperplate Gothic Light; font-size: 16pt; font-weight: bold;');

$university1->appendChild($uname1);

$city1 = $xml->createElement('City', 'City 1');

$city1->setAttribute('style', 'color:yellow; font-family: Arial; font-size: 12pt; font-weight: bold;');

$university1->appendChild($city1);

$rank1 = $xml->createElement('Rank', 'Rank 1');

$rank1->setAttribute('style', 'color:yellow; font-family: Arial; font-size: 12pt; font-weight: bold;');

$university1->appendChild($rank1);

// University 2

$university2 = $xml->createElement('University');

$univ->appendChild($university2);

$uname2 = $xml->createElement('Uname', 'University 2');

$uname2->setAttribute('style', 'color:black; font-family: copperplate Gothic Light; font-size: 16pt; font-weight: bold;');

$university2->appendChild($uname2);

$city2 = $xml->createElement('City', 'City 2');

$city2->setAttribute('style', 'color:yellow; font-family: Arial; font-size: 12pt; font-weight: bold;');

$university2->appendChild($city2);

$rank2 = $xml->createElement('Rank', 'Rank 2');

$rank2->setAttribute('style', 'color:yellow; font-family: Arial; font-size: 12pt; font-weight: bold;');

$university2->appendChild($rank2);

// University 3

$university3 = $xml->createElement('University');

$univ->appendChild($university3);

$uname3 = $xml->createElement('Uname', 'University 3');

$uname3->setAttribute('style', 'color:black; font-family: copperplate Gothic Light; font-size: 16pt; font-weight: bold;');

$university3->appendChild($uname3);

$city3 = $xml->createElement('City', 'City 3');

$city3->setAttribute('style', 'color:yellow; font-family: Arial; font-size: 12pt; font-weight: bold;');

$university3->appendChild($city3);

$rank3 = $xml->createElement('Rank', 'Rank 3');

$rank3->setAttribute('style', 'color:yellow; font-family: Arial; font-size: 12pt; font-weight: bold;');

$university3->appendChild($rank3);

// Save XML to file

$xml->save('University.xml');

?>

<!DOCTYPE html>

<html>

<head>

<title>University Details</title>

<link rel="stylesheet" type="text/css" href="styles.css">

</head>

<body>

<h1>University Details</h1>

<?php

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

echo "<tr><th>University</th><th>City</th><th>Rank</th></tr>";

// Load XML file

$xml = simplexml\_load\_file('University.xml');

foreach ($xml->University as $university) {

echo "<tr>";

echo "<td style='color:black; font-family: copperplate Gothic Light; font-size: 16pt; font-weight: bold;'>" . $university->Uname . "</td>";

echo "<td style='color:yellow; font-family: Arial; font-size: 12pt; font-weight: bold;'>" . $university->City . "</td>";

echo "<td style='color:yellow; font-family: Arial; font-size: 12pt; font-weight: bold;'>" . $university->Rank . "</td>";

echo "</tr>";

}

echo "</table>";

?>

</body>

</html>

And here is the styles.css file:

table {

border-collapse: collapse;

width: 100%;

}

th, td {

padding: 8px;

text-align: left;

}

tr:nth-child(even) {

background-color: #f2f2f2;

}

th {

background-color: #4CAF50;

color: white;

}