

1) Write the HTML code for generating the form as shown below. Apply the internal CSS to following form to change the font size of the heading to 6pt and change the color to red and also change the background color to yellow.

Project Management

The form is titled "Project Management" and is set against a yellow background. It includes the following elements:

- Project Name:** A text input field with the placeholder "project name".
- Assigned to:** A dropdown menu showing "Er Merry Petision" with a downward arrow.
- Start Date:** A date input field with the placeholder "dd-mm-yyyy" and a calendar icon.
- End Date:** A date input field with the placeholder "dd-mm-yyyy" and a calendar icon.
- Priority:** Three radio buttons labeled "High", "Average", and "Low".
- Description:** A large text area for entering details.
- Buttons:** A green "Submit" button and a blue "Clear" button at the bottom.

SOLUTION:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>Project Management</title>
```

```
</head>
```

```
<body style="background-color: yellow;">
  <h1>Project Management</h1>
  <form>
    <label for="projectName">Project Name:</label>
    <input type="text" id="projectName" name="projectName" value="project
name"><br><br>
    <label for="assignedTo">Assigned to:</label>
    <select id="assignedTo" name="assignedTo">
      <option value="Er Merry Petision">Er Merry Petision</option>
    </select><br><br>
    <label for="startDate">Start Date:</label>
    <input type="date" id="startDate" name="startDate" value="dd-mm-
yyyy"><br><br>
    <label for="endDate">End Date:</label>
    <input type="date" id="endDate" name="endDate" value="dd-mm-
yyyy"><br><br>
    <label for="priority">Priority:</label>
    <input type="radio" id="high" name="priority" value="High">
    <label for="high">High</label>
    <input type="radio" id="average" name="priority" value="Average">
    <label for="average">Average</label>
    <input type="radio" id="low" name="priority" value="Low">
    <label for="low">Low</label><br><br>
    <label for="description">Description:</label><br>
    <textarea id="description" name="description" rows="5"
cols="40"></textarea><br><br>
```

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

Q.2) Create HTML5 page with following specifications

i) Title should be about your City.

ii) Color the background by Pink color.

iii) Place your city name at the top of page in large text and in blue color.

iv) Add names of the landmarks in your city, each in different color, style and font

v) Add any image at the bottom. (Use inline CSS to format the web page)

SOLUTION:

```
<!DOCTYPE html>
<html>
<head>
<title>Pune city</title>
<marquee style="background-color:yellow;padding:20px;font-size:20px;">
Pune city is best for education.
</marquee>
</head>
<body style="background-color:pink;">
<br><br>
<h1 style="color:blue; font-size:large;">Pune City</h1>
<ul type="disc">
<li style="font-size:17px;">Landmarks:</li>
<ul>
<li style="color:red;font-size:11px;">Kothrud</li>
<li style="color:orange;font-size:12px;">MoryaGOsawi</li>
<li style="color:green;font-size:13px;">Dagdusheth</li>
<li style="color:aqua;font-size:14px;">Alandi</li>
</ul>
</ul>
<br><br>
```

```

</body>
</html>
```

3) Write a program using html with following CSS specifications

- i. The background colour of the company name should be in green.**
- ii. The text colour of the company name should be red.**
- iii. The heading should be large –with font ''comic sans ms'';**
- iv. The description of the company should be displayed in blue color in a paragraph.**

SOLUTION:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Company Info</title>
  <style>
    .company-name {
      background-color: green;
      color: red;
      font-family: 'Comic Sans MS', cursive, sans-serif;
      padding: 10px;
      text-align: center;
    }
  </style>
</head>
<body>
  <div class="company-name">
    <h1>Company Info</h1>
    <p>Description of the company</p>
  </div>
</body>
</html>
```

```

        .description {
            color: blue;
            font-size: 16px;
            margin: 20px;
        }
    </style>
</head>
<body>
    <h1 class="company-name">My Company Name</h1>
    <p class="description">We are a leading company in innovative solutions,
    dedicated to providing the best services to our clients.</p>
</body>
</html>

```

4) Write a HTML code, which generate the following output

List of Books			
Item No	Item Name	Price	
		Rs.	Paise
1	Programming in Python	500	50
2	Programming in Java 30	345	00

SOLUTION:

```

<!doctype html>
<html>
<head>
<title>

```

Program for printing table

</title>

<style>

table, td, th, tr{

border: 1px solid black;

border-collapse: collapse;

padding: 18px;

text-align: center;

}

</style>

```
</head>
<body>
<h1 align="center"> List of Books </h1>
<table align="center">
<tr>
<td rowspan="2"> Item No </td>
<td rowspan="2"> Item Name </td>
<td colspan="2"> Price </td>
</tr>
<tr>
<td> Rs. </td>
<td> Paise </td>
</tr>
<tr>
<td> 1. </td>
<td> Programming in Python </td>
<td> 500 </td>
<td> 50 </td>
</tr>
<tr>
<td> 2. </td>
<td> Programming in Java </td>
<td> 345 </td>
<td> 65 </td>
</tr>
</tbody>
```

```
</table>
</body>
</html>
```

5) Design HTML 5 Page Using CSS Which Displays the following Navigation Bar

SOLUTION:



```
<!DOCTYPE html>
<html>
<head>
<style>
#ul-nb {
list-style: none;
margin:2px;
padding:3px;
}
#ul-nb li {
float:left;
padding:10px;
background:orange;
text-align: center;
margin-left:5px;
}
#ul-nbli:hover {
background:red;
opacity:0.8;
color:white;
}
</style>
</head>
List of Books
```



```

<body>
<ul id="ul-nb">
<li><a href="">Home</a></li>
<li><a href="">Java</a></li>
<li><a href="">HTML</a></li>
<li><a href="">CSS</a></li>
</ul>
</body>
</html>

```

6) Design an HTML form to accept two strings from the user. Write a PHP script for the following.

a. Find whether the small string appears at the start of the large string.

b. Find the position of the small string in the big string.

c. Compare both the string for first n characters, also the comparison should not be case sensitive.

SOLUTION:

```

<form method="POST" action="setb1ph.php">
<label for="smallString">Small String:</label>
<input type="text" name="smallString" id="smallString" required>
<label for="bigString">Big String:</label>
<input type="text" name="bigString" id="bigString" required>
<input type="submit" value="Submit">
</form>

```

*****setb1ph.php file

```

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $smallString = $_POST["smallString"];
    $bigString = $_POST["bigString"];
    // a. Find whether the small string appears at the start of the large string
    $startsWith = (strpos($bigString, $smallString) === 0);
    // b. Find the position of the small string in the big string
    $position = strpos($bigString, $smallString);
    // c. Compare both strings for the first n characters (case insensitive)
    $n = 5; // Change this value to the desired number of characters to compare
    $comparison = strncasecmp($smallString, $bigString, $n);
    // Output the results
    echo "Starts with small string: " . ($startsWith ? "Yes" : "No") . "<br>";
}

```

```
echo "Position of small string: " . ($position !== false ? $position : "Not found") .  
"<br>";  
echo "Comparison of first $n characters: " . ($comparison == 0 ? "Equal" : "Not  
equal") . "<br>";
```

```
}  
?>
```

7) Write a PHP script for the following: Design a form having a text box and a drop down list containing any 3 separators(e.g. #, |, %, @, ! or comma) accept a strings from the user and also a separator.

a. Split the string into separate words using the given separator.

b. Replace all the occurrences of separator in the given string with some other separator.

c. Find the last word in the given string.

SOLUTION:

```
<html>  
<body bgcolor=#c29bb8>  
<form action="setb2ph1.php" method=get>  
<pre>  
Enter any string:<input type=text name=s>  
Select seperator from following:<select name=s1>  
<option> | </option>  
<option> @ </option>  
<option> # </option>  
</select>  
<input type=submit value=show_output>  
</pre>  
</form>  
</body>  
</html>
```

*****setb2ph.php*****

```
<html>  
<body bgcolor="#67074e">  
<?php  
$str = $_GET['s'];  
$separator = $_GET['s1'];  
echo "<br>Given String: $str";  
$arr=explode($separator,$str);  
$words=implode(" ",$arr);
```

```

echo "<br> String into words: $words";
$str_rep=str_replace($separator,'#',$str);
echo "<br>After Replacement: $str_rep";
$lpos=strrpos($str," ");
echo "<br>last word in given string:" .substr($str,$lpos);
?>
</body>
</html>

```

8) Write a script to accept two integers(Use html form having 2 textboxes).

Write a PHP script to,

- a. Find mod of the two numbers.**
- b. Find the power of first number raised to the second.**
- c. Find the sum of first n numbers (considering first number as n)**
- d. Find the factorial of second number.**

(Write separate function for each of the above operations.)

SOLUTION:

```

<!DOCTYPE html>
<html>
<body>
<form action="calculate.php" method="post">
<input type="text" name="num1" placeholder="Enter first number">
<input type="text" name="num2" placeholder="Enter second number">
<input type="submit" value="Calculate">
</form>
</body>
</html>
calculate.php
<?php
// Function to find the modulus of the two numbers
function findModulus($num1, $num2) {
return $num1 % $num2;
}
// Function to find the power of the first number raised to the second

```

```

function findPower($num1, $num2) {
return pow($num1, $num2);
}
// Function to find the sum of first n numbers
function findSum($n) {
return ($n * ($n + 1)) / 2;
}
// Function to find the factorial of the second number
function findFactorial($num) {
if ($num === 0) {
return 1;
} else {
return $num * findFactorial($num - 1);
}
}
// Retrieve input from the form
$num1 = $_POST['num1'];
$num2 = $_POST['num2'];
// Perform the operations
$modulus = findModulus($num1, $num2);
$power = findPower($num1, $num2);
$sum = findSum($num1);
$factorial = findFactorial($num2);

// Display the results
echo "Modulus: " . $modulus . "<br>";
echo "Power: " . $power . "<br>";
echo "Sum of first " . $num1 . " numbers: " . $sum . "<br>";
echo "Factorial of " . $num2 . ": " . $factorial;
?>

```

9) Write a PHP script for the following: Design a form to accept two numbers from the user. Give options to choose the arithmetic operation (use radio buttons). Display the result on the next form. (Use the concept of function and default parameters. Use 'include' construct or require statement)

SOLUTION:

*******HTML FILE**

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Arithmetic Operations</title>
<style>
Body
{
font-family: Arial, sans-serif; margin: 20px;
}
button
{
margin-top: 10px;
}
.result
{
margin-top: 20px; border: 1px solid #ccc; padding: 10px; background-color:
#f9f9f9;
}
</style>
</head>
<body>
<h2>Arithmetic Operations</h2>
<form method="POST" action="Q2.php">
<label for="num1">Enter first number:</label><br>
<input type="number" id="num1" name="num1" required><br><br>
```

```
<label for="num2">Enter second number:</label><br>
<input type="number" id="num2" name="num2" required><br><br>
<label>Select an operation:</label><br>
<input type="radio" name="operation" value="add" checked>Add<br>
<input type="radio" name="operation" value="subtract">Subtract<br>
<input type="radio" name="operation" value="multiply">Multiply<br>
<input type="radio" name="operation" value="divide">Divide<br><br>
<button type="submit">Calculate</button>
</form>
</body>
</html>
```

*******functions.php** file

```
<?php
function calculate($num1 = 0, $num2 = 0, $operation = 'add') {
    switch ($operation) {
        case 'add':
            return $num1 + $num2;
        case 'subtract':
            return $num1 - $num2;
        case 'multiply':
            return $num1 * $num2;
        case 'divide':
            return $num2 != 0 ? $num1 / $num2 : 'Division by zero error';
        default:
```

```
        return 'Invalid operation';
```

*******Q2.php file**

```
<?php
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
```

```
    // Include the functions file
```

```
    include 'functions.php';
```

```
    // Retrieve the input values
```

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

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

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

```
    // Perform the calculation
```

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

```
    // Display the result
```

```
    echo "<h3>Result:</h3>";
```

```
    echo "<p>The result of $operation $num1 and $num2 is: $result</p>";
```

```
}
```

```
?>
```

10) Write a PHP script to create a chess board using CSS on table cells

SOLUTION:

```
<!DOCTYPE html>
```

```
<html lang="en">
```



```
<head>

  <meta charset="UTF-8">

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

  <title>Chess Board</title>

  <style>
    body {
      display: flex;
      justify-content: center;
      align-items: center;
      height: 100vh;
      background-color: #f0f0f0;
    }
    table {
      border-collapse: collapse;
    }
    td {
      width: 50px;
      height: 50px;
    }
    .white {
      background-color: white;
    }
    .black {
      background-color: black;
```

```

    }
</style>
</head>
<body>

<table>
    <?php
    for ($row = 0; $row < 8; $row++) {
        echo "<tr>";
        for ($col = 0; $col < 8; $col++) {
            // Determine the class based on the sum of row and column
            $class = ($row + $col) % 2 == 0 ? 'white' : 'black';
            echo "<td class='$class'></td>";
        }
        echo "</tr>";
    }
    ?>
</table>

</body>
</html>

```

11) Design a form to accept string from the user and perform the following operations

- a. To select first 5 words from the string**
- b. Convert the given string to lowercase and then to Title case.**
- c. Pad the given string with “*” from left and right both the sides.**

- d. Remove the leading whitespaces from the given string.
e. Find the reverse of given string.

SOLUTION:

*****HTML FILE

```
<html>
<body bgcolor=#074E67>
<form action="Q2.php" method=get>
<pre>
Enter string:<input type=text name=t>
Find length of string:<input type=radio name=r value=1>
Count vowels in string:<input type=radio name=r value=2>
Title case and lower case of string<input type=radio name=r value=3>
Pad of string:<input type=radio name=r value=4>
Remove leading whitespaces:<input type= radio name=r value=5>
Find reverse of string:<input type =radio name=r value=6>
<input type=submit value=show_output>
</pre>
</form>
</body>
</html>
```

*****funcc.php*****

```
<?php
Function find_length($str)
{
$arr=str_split($str);
echo "<br>Length of $str=" . sizeof($arr);
}
Function count_vowels($str)
{
$arr=str_split($str);
$vw1_cnt=0;
for($i=0;$i<sizeof($arr);$i++)
{
```

```

if($arr[$i]=='a' || $arr[$i]=='A' || $arr[$i]=='e' || $arr[$i]=='E' || $arr[$i]=='i' ||
$arr[$i]=='I' || $arr[$i]=='o' || $arr[$i]=='O' || $arr[$i]=='u' || $arr[$i]=='U')
$vwل_cnt++;
}
echo "Total no of vowels in $str=$vwل_cnt";
}
?>
*****Q2.php*****

```

```

<?php
include 'funcc.php';
$str = $_GET['t'];
$ch = $_GET['r'];
switch($ch)
{
case 1:
find_length($str);
break;
case 2:
count_vowels($str);
case 3:
echo "$str in title case:" .ucwords($str);
echo "<br>$str in lower case:" .strtolower($str);
break;
case 4:
echo "After padding" .str_pad($str,25,"*",STR_PAD_BOTH);
break;
case 5:
echo "After removing leading spaces:" .trim($str);
break;
case 6:
echo "Reverse of $str is :" .strrev($str);
break;
default:
echo "please select correct one";
}
?>

```

12)

Write a PHP script for the following: Design a form to accept the marks of 5 different subjects of a student, having serial number, subject name & marks out of 100. Display the result in the tabular format which will have total, percentage and grade. Use only 3 text boxes.(Use array of form parameters)

SOLUTION:

<!DOCTYPE html>

```
<html lang="en">
```

<head>

```
<meta charset="UTF-8">
```

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

<title>Student Marks Entry</title>

<style>

| | |
|---------|--|
| table { | |
|---------|--|

```
width: 50%;
```

border-collapse: collapse;

```
margin: 20px auto;
```

}

```
th, td {
```

border: 1px solid black;

padding: 10px;

```
text-align: center;
```

}

th {

```
background-color: #f2f2f2;
```

}

```
</style>
</head>
<body>

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    // Retrieve the marks from the form
    $marks = $_POST['marks'];

    // Calculate total, percentage, and grade
    $total = array_sum($marks);
    $percentage = $total / 5;

    if ($percentage >= 90) {
        $grade = 'A+';
    } elseif ($percentage >= 80) {
        $grade = 'A';
    } elseif ($percentage >= 70) {
        $grade = 'B';
    } elseif ($percentage >= 60) {
        $grade = 'C';
    } elseif ($percentage >= 50) {
        $grade = 'D';
    } else {
```

```

    $grade = 'F';
}

// Display the result in a table
echo "<table>

    <tr>

        <th>Subject</th>

        <th>Marks Obtained</th>

    </tr>";

foreach ($marks as $index => $mark) {
    echo "<tr>

        <td>Subject " . ($index + 1) . "</td>

        <td>$mark</td>

    </tr>";
}

echo "<tr>

    <td><strong>Total</strong></td>

    <td><strong>$total</strong></td>

</tr>

<tr>

    <td><strong>Percentage</strong></td>

    <td><strong>" . number_format($percentage, 2) . "%</strong></td>

</tr>

<tr>

```

```

        <td><strong>Grade</strong></td>
        <td><strong>$grade</strong></td>
    </tr>
</table>";
} else {
?>

<form method="POST" action="">
    <h2>Enter Marks for 5 Subjects</h2>
    <div>
        <label for="marks[]">Subject 1:</label>
        <input type="number" name="marks[]" max="100" required><br>
        <label for="marks[]">Subject 2:</label>
        <input type="number" name="marks[]" max="100" required><br>
        <label for="marks[]">Subject 3:</label>
        <input type="number" name="marks[]" max="100" required><br>
        <label for="marks[]">Subject 4:</label>
        <input type="number" name="marks[]" max="100" required><br>
        <label for="marks[]">Subject 5:</label>
        <input type="number" name="marks[]" max="100" required><br>
    </div>
    <input type="submit" value="Submit">
</form>
}

```


?>

</body>

</html>

13) Write a PHP script to sort the following associative array :

array("Sagar"=>"31", "Vicky"=>"41", "Leena"=>"39", "Ramesh"=>"40") in

a) ascending order sort by Value

b) ascending order sort by Key

c) descending order sorting by Value

d) descending order sorting by Key

SOLUTION:

```
<?php
```

```
// Original associative array
```

```
$people = array("Sagar" => "31", "Vicky" => "41", "Leena" => "39", "Ramesh" => "40");
```

```
// a) Ascending order sort by Value
```

```
asort($people);
```

```
echo "<h3>Ascending order by Value:</h3>";
```

```
foreach ($people as $name => $age) {
```

```
    echo "$name => $age<br>";
```

```
}
```

```
// Resetting array for next sorting
```

```
$people = array("Sagar" => "31", "Vicky" => "41", "Leena" => "39", "Ramesh" => "40");
```

```
// b) Ascending order sort by Key
```

```
ksort($people);
```

```
echo "<h3>Ascending order by Key:</h3>";
```

```
foreach ($people as $name => $age) {
```

```
    echo "$name => $age<br>";
```

```
}
```

```
// Resetting array for next sorting
```

```
$people = array("Sagar" => "31", "Vicky" => "41", "Leena" => "39", "Ramesh" => "40");
```

```
// c) Descending order sorting by Value
```

```
arsort($people);
```

```
echo "<h3>Descending order by Value:</h3>";
```

```
foreach ($people as $name => $age) {
```

```
    echo "$name => $age<br>";
```

```
}
```

```
// Resetting array for next sorting
```

```
$people = array("Sagar" => "31", "Vicky" => "41", "Leena" => "39", "Ramesh" => "40");
```

```
// d) Descending order sorting by Key
```

```
krsort($people);
```

```
echo "<h3>Descending order by Key:</h3>";
```

```
foreach ($people as $name => $age) {
```

```
    echo "$name => $age<br>";
```

```
}
```

14) Write a menu driven program to perform the following operations on an associative array

a. Reverse the order of each element's key-value pair.

b. Traverse the element in an array in random order.

c. Convert the array elements into individual variables.

d. Display the elements of an array along with key.

SOLUTION:

```
<?php
```

```
// Original associative array
```

```
$people = array("Sagar" => "31", "Vicky" => "41", "Leena" => "39", "Ramesh" => "40");
```

```
// Function to reverse the order of each element's key-value pair
```

```
function reverseArray($array) {
```

```
    $reversed = [];
```

```
foreach ($array as $key => $value) {  
    $reversed[$value] = $key; // Reverse the key-value pair  
}  
return $reversed;  
}
```

// Function to traverse the elements in random order

```
function randomOrder($array) {  
    $keys = array_keys($array);  
    shuffle($keys);  
    $randomArray = [];  
    foreach ($keys as $key) {  
        $randomArray[$key] = $array[$key];  
    }  
    return $randomArray;  
}
```

// Function to convert array elements into individual variables

```
function convertToVariables($array) {  
    foreach ($array as $key => $value) {  
        // Using variable variables  
        ${$key} = $value;  
    }  
    return get_defined_vars(); // Return all defined variables
```

```
}
```

```
// Function to display elements of an array along with key
```

```
function displayArray($array) {  
    foreach ($array as $key => $value) {  
        echo "$key => $value<br>";  
    }  
}
```

```
// Menu driven program
```

```
do {  
    echo "<h3>Menu:</h3>";  
    echo "1. Reverse the order of each element's key-value pair<br>";  
    echo "2. Traverse the element in an array in random order<br>";  
    echo "3. Convert the array elements into individual variables<br>";  
    echo "4. Display the elements of an array along with key<br>";  
    echo "5. Exit<br>";  
    echo "Choose an option (1-5): ";
```

```
// Get user input
```

```
$choice = trim(fgets(STDIN));
```

```
switch ($choice) {
```

```
    case 1:
```

```
echo "<h4>Reversed Key-Value Pairs:</h4>";
```

```
$reversedArray = reverseArray($people);
```

```
displayArray($reversedArray);
```

```
break;
```

case 2:

```
echo "<h4>Random Order of Elements:</h4>";
```

```
$randomArray = randomOrder($people);
```

```
displayArray($randomArray);
```

```
break;
```

case 3:

```
echo "<h4>Converted Variables:</h4>";
```

```
$variables = convertToVariables($people);
```

```
foreach ($variables as $varName => $value) {
```

```
    echo "$varName = $value<br>";
```

```
}
```

```
break;
```

case 4:

```
echo "<h4>Display Elements with Keys:</h4>";
```

```
displayArray($people);
```

```
break;
```

case 5:

```
echo "Exiting...";
```

```
break;
```

default:

```

        echo "Invalid choice, please try again.<br>";
        break;
    }
} while ($choice != 5);
?>

```

15) Write a PHP script to accept 2 strings from the user, the first string should be a sentence and second can be a word.

- a. Delete a small part from first string after accepting position and number of characters to remove.**
- b. Insert the given small string in the given big string at specified position without removing any characters from the big string.**
- c. Replace some characters/ words from given big string with the given small string at specified position.**

SOLUTION:

```

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

    if (isset($_POST['operation'])) {
        $operation = $_POST['operation'];

        switch ($operation) {
            case 'delete':
                $position = (int)$_POST['position'];
                $length = (int)$_POST['length'];

```

```
$bigString = substr_replace($bigString, "", $position, $length);
```

```
break;
```

```
case 'insert':
```

```
$insertPosition = (int)$_POST['insertPosition'];
```

```
$bigString = substr_replace($bigString, $smallString, $insertPosition, 0);
```

```
break;
```

```
case 'replace':
```

```
$replacePosition = (int)$_POST['replacePosition'];
```

```
$replaceLength = strlen($smallString);
```

```
$bigString = substr_replace($bigString, $smallString, $replacePosition,  
$replaceLength);
```

```
break;
```

```
}
```

```
}
```

```
}
```

```
?>
```

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<title>String Manipulation</title>
```

```
</head>
```

```
<body>
```


<h2>String Manipulation</h2>

<form method="POST">

<label for="bigString">Enter a sentence:</label>

<textarea name="bigString" rows="4" cols="50" required><?php echo
isset(\$bigString) ? htmlspecialchars(\$bigString) : "; ?></textarea>

<label for="smallString">Enter a word:</label>

<input type="text" name="smallString" value="<?php echo
isset(\$smallString) ? htmlspecialchars(\$smallString) : "; ?>" required>

<h3>Operations:</h3>

<input type="radio" name="operation" value="delete" required> Delete part
of the string

<label for="position">Position:</label>

<input type="number" name="position" required>

<label for="length">Length:</label>

<input type="number" name="length" required>

<input type="radio" name="operation" value="insert"> Insert the word

<label for="insertPosition">Insert Position:</label>

<input type="number" name="insertPosition" required>

<input type="radio" name="operation" value="replace"> Replace part of the
string

<label for="replacePosition">Replace Position:</label>

<input type="number" name="replacePosition" required>


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

<?php if (isset($bigString)): ?>
    <h3>Result:</h3>
    <p><?php echo htmlspecialchars($bigString); ?></p>
<?php endif; ?>
</body>
</html>
```

16)Write a menu driven program to perform the following operations on associative arrays:

- a) Split an array into chunks**
- b) Sort the array by values without changing the keys.**
- c) Filter the even elements from an array.**

SOLUTION:

```
<?php
// Original associative array
$people = array("Sagar" => 31, "Vicky" => 41, "Leena" => 39, "Ramesh" => 40,
"Anjali" => 28);

// Function to split an array into chunks
function splitArrayIntoChunks($array, $chunkSize) {
    return array_chunk($array, $chunkSize, true); // Preserve keys
}
```

```
// Function to sort the array by values without changing keys
function sortByValues($array) {
    asort($array); // Sorts by value, maintaining key association
    return $array;
}
```

```
// Function to filter even elements from an array
function filterEvenElements($array) {
    return array_filter($array, function($value) {
        return $value % 2 == 0;
    });
}
```

```
// Menu-driven program
do {
    echo "<h3>Menu:</h3>";
    echo "1. Split the array into chunks<br>";
    echo "2. Sort the array by values without changing keys<br>";
    echo "3. Filter even elements from the array<br>";
    echo "4. Exit<br>";
    echo "Choose an option (1-4): ";

    // Get user input
```

```
$choice = trim(fgets(STDIN));
```

```
switch ($choice) {
```

```
    case 1:
```

```
        echo "Enter chunk size: ";
```

```
        $chunkSize = (int)trim(fgets(STDIN));
```

```
        $chunks = splitArrayIntoChunks($people, $chunkSize);
```

```
        echo "<h4>Chunks:</h4>";
```

```
        print_r($chunks);
```

```
        break;
```

```
    case 2:
```

```
        echo "<h4>Sorted Array by Values:</h4>";
```

```
        $sortedArray = sortArrayByValues($people);
```

```
        print_r($sortedArray);
```

```
        break;
```

```
    case 3:
```

```
        echo "<h4>Filtered Even Elements:</h4>";
```

```
        $sevenElements = filterEvenElements($people);
```

```
        print_r($sevenElements);
```

```
        break;
```

```
    case 4:
```

```

        echo "Exiting...";

        break;

default:

    echo "Invalid choice, please try again.<br>";

    break;

}

} while ($choice != 4);

?>

```

17) Create an array of 15 high temperatures, approximating the weather for a spring month, then find the average high temp, the five warmest high temps Display the result on the browser.

SOLUTION:

```

<?php
// Step 1: Create an array of 30 high temperatures for
a spring month
$temperatures = [20, 22, 19, 25, 27, 23, 24, 26, 21,
29, 30, 18, 19, 20, 25, 26, 22, 23, 28, 29, 30, 18, 21,
22, 24, 26, 27, 28, 19, 25];
// Step 2: Calculate the average temperature
$average_temp = array_sum($temperatures) /
count($temperatures);
// Step 3: Sort the array in ascending order to get the
coolest and warmest temperatures
sort($temperatures);
// Step 4: Get the 5 coolest temperatures
$coolest_temps = array_slice($temperatures, 0, 5);
// Step 5: Get the 5 warmest temperatures (sorted array
means the last 5 are the warmest)
$warmest_temps = array_slice($temperatures, -5);
// Step 6: Display the results in the browser
echo "<h1>Spring Month Temperature Stats</h1>";

```

```

echo "<p>Average Temperature: " . round($average_temp,
2) . "&deg;C</p>";
echo "<p>5 Coolest Temperatures: " . implode(", ",
$coolest_temps) . "&deg;C</p>";
echo "<p>5 Warmest Temperatures: " . implode(", ",
$warmest_temps) . "&deg;C</p>";
?>

```

18)

Write a menu driven program to perform the following queue related operations

- a) Insert an element in queue**
- b) Delete an element from queue**
- c) Display the contents of queue**

SOLUTION:***HTML FILE**

```
<html>
```

```
<body>
```

```
<form action=as4setb1ph.php method=post>
```

```
<pre>
```

```
Enter the no. to perform following operations:<input type=text name=t>
```

operation menu:

- 1.Insert an element in queue
- 2.Delete an element from queue
- 3.Display the contents of queue

```
Enter no of operation which u want to perform:<input type=text name=ch>
```

```
<input type=submit value=showresult>
```

```
</pre>
```

```
</body>
```

```
</html>
```

*******PHP FILE**

```
<?php
$ele=$_POST['t'];
$ch=$_POST['ch'];
$arr=array(1,2,3,4,5);
echo "original array is:";
foreach ($arr as $key => $value)
{
echo "<br>";
echo "&nbsp; &nbsp; [$key] => $value";
}
switch($ch)
{
case 1:
array_unshift($arr,$ele);
echo "<br>After inserting $ele ,queue is :";
foreach ($arr as $key => $value)
{
echo "<br>";
echo "&nbsp; &nbsp; [$key] => $value";
}
break;
case 2:
array_shift($arr);
echo "<br><br>After deleting $ele,queue is:";
```

```

foreach($arr as $key => $value)
{
    echo "<br>";
    echo "&nbsp; &nbsp; [$key] => $value";
}
break;
case 3:
    echo "<br>Content of queue is :";
    foreach ($arr as $key => $value)
    {
        echo "<br>";
        echo "&nbsp; &nbsp; => $value";
    }
    break;
default:
    echo "please enter proper choice...";
}
?>

```

19)

Write a menu driven program to perform the following stack related operations:

- a) Insert an element in stack**
- b) Delete an element from stack**
- c) Display the contents of stack**

SOLUTION:

1) ***HTML FILE**


```

<html>
<body>
<form action=as4setb1ph.php method=post>
<pre>
Enter the no. to perform following operations:<input type=text name=t>
operation menu:
1.Insert an element in stack
2.Delete an element from stack
3.Display the contentsof stack
Enter no of operation which u want to perform:<input type=text name=ch>
<input type=submit value=showresult>
</pre>
</body>
</html>

```

*******PHP FILE**

```

<?php
$ele=$_POST['t'];
$ch=$_POST['ch'];
$arr=array(1,2,3,4,5);
echo "original array is:";
foreach ($arr as $key => $value)
{
echo "<br>";
echo "&nbsp; &nbsp; [$key] => $value";

```

```
}  
switch($ch)  
{  
case 1:  
array_push($arr,$ele);  
echo "<br>After inserting $ele,stack is:";  
foreach ($arr as $key => $value)  
{  
    echo "<br>";  
    echo "&nbsp; &nbsp; [$key] => $value";  
}  
break;  
case 2:  
array_pop($arr);  
echo "<br><br>After deleting $ele ,stack is:";  
foreach ($arr as $key => $value)  
{  
    echo "<br>";  
    echo "&nbsp; &nbsp; [$key] => $value";  
}  
break;  
case 3:  
echo "<br>Content of stack is :";  
foreach ($arr as $key => $value)
```

```

{
echo "<br>";
echo "&nbsp; &nbsp; => $value";
}
break;
default:
echo "please enter proper choice...";
}
?>
20)

```



```

<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">

```

```

<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></scrip
t>
</head>
<body>
<div class="jumbotron text-center">
<h1>My First Bootstrap Page</h1>
<p>Resize this responsive page to see the effect!</p>
</div>
<div class="container">
<div class="row">
<div class="col-sm-4">
<h3>Personal Information</h3>
<p>Add your personal information..</p>
<p>...</p>
</div>
<div class="col-sm-4">
<h3>Educational Information</h3>
<p>Add your educational information....</p>
<p>...</p>
</div>
<div class="col-sm-4">
<h3>Job Profile</h3>
<p>Add your job profile information.....</p>
<p>...</p>
</div>
</div>
</div>
</body>
</html>

```

21) Create a button with different style (Secondary, Primary, Success, Error, Info, Warning, Danger) using BootStrap.

```

<!DOCTYPE html>
<html lang="en">
<head>

  <title>Bootstrap Buttons Example</title>
  <!-- Bootstrap CSS CDN -->
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
</head>
<body>

<div class="container mt-5">
  <h2>Bootstrap Button Styles</h2>
  <div class="btn-group" role="group" aria-label="Button group">
    <button type="button" class="btn btn-secondary">Secondary</button>
    <button type="button" class="btn btn-primary">Primary</button>
    <button type="button" class="btn btn-success">Success</button>
    <button type="button" class="btn btn-danger">Danger</button>
    <button type="button" class="btn btn-warning">Warning</button>
    <button type="button" class="btn btn-info">Info</button>
  </div>
</div>

<!-- Bootstrap JS and dependencies -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js">
</script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></scri
pt>

</body>
</html>

```

22) Create a container add row inside it and add 3 columns inside row using Bootstrap

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bootstrap Grid Example</title>
  <!-- Bootstrap CSS CDN -->
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
</head>
<body>

<div class="container mt-5">
  <h2>Bootstrap Grid Example</h2>
  <div class="row">
    <div class="col">
      <div class="p-3 border bg-light">Column 1</div>
    </div>
    <div class="col">
      <div class="p-3 border bg-light">Column 2</div>
    </div>
    <div class="col">
      <div class="p-3 border bg-light">Column 3</div>
    </div>
  </div>
</div>

<!-- Bootstrap JS and dependencies -->
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.2/dist/umd/popper.min.js">
</script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></scri
pt>

</body>
</html>

```

23) Write a program to read a flat file “item.dat”, which contains details of 5

different items such as Item code, Item Name, unit sold, and Rate. Display the Bill in tabular format

```
<html>
<head>
<title>PHP Test</title>
</head><body>
<?php
$file = fopen("item.dat", "r");
$sep = ",";
$con = file('item.dat');
echo "<table border='3px'>\n";
foreach ($con as $row)
{
echo "\t<tr>\n";
$cells = explode($sep, $row);
foreach ($cells as $cell)
{
echo sprintf("\t<td> %s </td>\n", $cell);
}
echo "\t</tr>\n";
}
echo "</table>\n";
foreach ($cells as $cell)
{
sprintf("\t<td> %s </td>\n", $cell);
}
fclose($file);
?>
</body>
</html>
```

24)slip no-24 Write a PHP program to read two file names from user and append content of first file into second file

*****make a HTML file

```
<html>
<body>
<form action="file3ph.php" method="POST">
Enter First File:<input type="text" name="first"><br><br>
Enter Second File:<input type="text" name="second"><br><br>
<input type="submit">
```

```
</form>
</body>
```

```
</html>
```

*****make a PHP file(file3ph.php)

```
<?php
$first=$_POST['first'];
$second=$_POST['second'];
if(!file_exists($first))
{
die("<br>$first does not exist");
}
if(!file_exists($second))
{
die("<br>$second does not exist");
}
$fp1=fopen($first,'r') or die("unable to open first file");
$fp2=fopen($second,'a') or die("unable to open second file");
$data=fread($fp1,filesize($first));
fwrite($fp2,$data);
fclose($fp1);
fclose($fp2);
echo "<h2>Contents of first file is appended to second file</h2>";
?>
```