

PRACTICE PROGRAM:

1. Write a PHP Script to define an array. Find the element from the array that matches the given value using the appropriate search function.

ANS:

HTML & PHP CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h2>find number in array it exist or not!</h2>
    <form action="Q1.php" method="post">
        <u>Enter a number:</u><input type="text" name="num" ><br>
        <input type="submit" name="submit" id="submit">
    </form>
</body>
</html>
<?php
error_reporting(0);
if($_SERVER["REQUEST_METHOD"]=="POST"){
    $n=$_POST["num"];
    $arr= array(1,2,3,4,5,6,7);
    $count=count($arr);
    echo"The array is:";
    for ($i=0; $i < $count; $i++) {
        echo"\t$arr[$i]";
    }
}
```

```

echo"<br>";
if (in_array($n,$arr)==1) {
    echo"The value $n are exist in array!."<br>";
} else {
    echo"The value $n are not exist in array!."<br>";
}
}
?>

```

2. Write a PHP script to count the total number of vowels (a,e,i,o,u) from the string. Show the occurrences of each vowel from the string.

ANS:

HTML & PHP CODE:

```

<html>

<body>

    <form action="Q2.php" method="GET">

        Enter a string : <input type="text" name="string"><br>

        <br>

        <button>click</button>

    </form>

</body>

</html>

<?php
error_reporting(0);
if($_SERVER["REQUEST_METHOD"]=="GET")
{
    $str=$_GET['string'];
    $a=0;
    $e=0;
    $i=0;

```

```

$o=0;
$u=0;
for ($i=0; $i < strlen($str); $i++) {
    if ($str[$i]=='A' || $str[$i]=='a') {
        $a++;
    }elseif ($str[$i]=='E' || $str[$i]=='e') {
        $e++;
    }elseif ($str[$i]=='I' || $str[$i]=='i') {
        $l++;
    }elseif ($str[$i]=='O' || $str[$i]=='o') {
        $o++;
    }elseif($str[$i]=='U' || $str[$i]=='u'){
        $u++;
    }
}
echo"total 'A' or 'a' is : ".$a."<br>";
echo"total 'E' or 'e' is : ".$e."<br>";
echo"total 'I' or 'i' is : ".$l."<br>";
echo"total 'O' or 'o' is : ".$o."<br>";
echo"total 'U' or 'u' is : ".$u."<br>";
}
?>

```

3. Write PHP program to perform the following operations on Indexed Array:

- a) Check the array element is positive or negative
- b) Calculate the average of array elements
- c) Calculate the sum of array elements.

ANS:

PHP CODE:

```
<?php
```

```

error_reporting(0);
if($_SERVER["REQUEST_METHOD"]=="GET"){
    $p=0;
    $n=0;
    $arr= array(1,2,3,4,5,6,7,8,9,10);
    for ($i=0; $i < count($arr); $i++) {
        if ($arr[$i]>0) {
            $p++;
        }else{
            $n++;
        }
    }
    print("total positive numbers are:".$p);
    echo"<br>";
    print("total negative numbers are:".$n);
    echo("<br>");

    $sum=0;
    for ($i=0; $i < count($arr); $i++) {
        $sum=$sum+$arr[$i];
    }

    $avg=$sum/count($arr);
    echo"The average of array element is:".$avg;
    echo("<br>");
    echo"The sum of array elements:".$sum;
}
?>

```

SET A:

1. Write PHP program to perform the following operations on Indexed Array:

a) Union of two arrays

b) Traverse the array elements in random order.

ANS:

PHP CODE:

```
<?php

$arr1=array(10,5,8,3,2,12);
$arr2=array(1,2,3,6,8,7,4);
$temp=$arr1;
$temp1=array();
$k=0;

for($j=0;$j<count($arr2);$j++)
{
    for($i=0;$i<count($arr1);$i++)
    {
        if($arr1[$i]!=$arr2[$j])
        {
            continue;
        }else{
            $temp1[$k]=$arr2[$j];
        }
    }
}

echo"<br>". "The array is:". "<br>";
print_r($temp);

echo"<br>". "The array is:". "<br>";
print_r($temp1);

$arr3=array_merge($temp,$temp1);
print_r($arr3);

error_reporting(0);
```

```

print("<br>The original array is:<br>");
print_r($arr1);
sort($arr1);
print("<br> The sorted array is:<br>");
print_r($arr1);
$arr4=array_merge($a,$b);
print_r($arr4);
echo"<br>";
echo"traverse the array elements in random order:";
$a=array_rand($arr3);
print_r($a);
?>

```

2. Write a PHP program to perform the following operations on an associative array:

- a) Display the elements of an array along with the keys.**
- b) Display the size of an array**
- c) Delete an element from an array from the given index.**
- d) Reverse the order of each element's key-value pair**
- e) Traverse the elements in an array in random order**

ANS:

HTML & PHP CODE:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>Enter index for delete element!</h1>

```

```

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

    <label for="index">Enter index for delete the element:</label>

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

    <br>

    <label for="select"><b>select your choice:</b></label>

    <select name="select">

        <option value="display">Display array elements</option>

        <option value="size">display size of array</option>

        <option value="delete">delete element from given index</option>

        <option value="reverse">reverse element</option>

        <option value="traverse">traverse elements in random order</option>

    </select>

    <br>

    <br>

    <input type="submit" name="submit" id="submit" value="submit">

    <input type="reset" name="reset" id="reset" value="reset">

</form>

</body>

</html>

<?php
error_reporting(0);
if(isset($_POST["submit"]))
{
    $index=$_POST["index"];
    $choice=$_POST["select"];
    $arr=array("c"=>"choice","s"=>"sort","n"=>"name","r"=>"relation");
    switch ($choice) {
        case 'display':
            echo"original array is:". "<br>";
            foreach($arr as $key=>$value)
            {

```

```

        echo$key."=>".$value."<br>";
    }
    break;
case 'size':
    echo"original array is:."<br>";
    foreach($arr as $key=>$value)
    {
        echo$key."=>".$value."<br>";
    }
    echo"<br>";
    $size=count($arr);
    echo"size of array is: ".$size;
    break;
case 'delete':
    echo"original array is:."<br>";
    foreach($arr as $key=>$value)
    {
        echo$key."=>".$value."<br>";
    }
    echo"<br>";
    $i=$_POST["index"];
    unset($arr[$i]);
    echo"After deleting element array is:."<br>";
    foreach($arr as $key=>$value)
    {
        echo$key."=>".$value."<br>";
    }
    break;
case 'reverse':
    echo"original array is:."<br>";
    foreach($arr as $key=>$value)

```



```

    {
        echo$key."=>".$value."<br>";
    }
    echo"<br>";
    $arr1=array_reverse($arr);
    echo"reverse array is:". "<br>";
    foreach($arr1 as $key=>$value)
    {
        echo$key."=>".$value."<br>";
    }
    echo"<br>";
    break;
case 'traverse':
    echo"original array is:". "<br>";
    foreach($arr as $key=>$value)
    {
        echo$key."=>".$value."<br>";
    }
    echo"<br>";
    echo"random element is:".array_rand($arr);
    break;
}
}
?>

```

3. Write a PHP Script for the following:

- a) Declare and Display a multidimensional Array.**
- b) Search and display a specific element from a Multidimensional array.**

ANS:

HTML & PHP CODE:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

</head>

<body>

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

        <label for="index"><b>Enter index value for search:</b></label>

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

        <br>

        <label for="select">

            <b>Select choice:</b>

        </label>

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

            <option value="display">display</option>

            <option value="search">search</option>

        </select><br>

        <br>

        <input type="submit" name="submit" id="submit" value="submit">

        <input type="reset" name="reset" id="reset" value="reset">

    </form>

</body>

</html>

<?php

if(isset($_POST["submit"]))

{

    $choice=$_POST["select"];

    $index=$_POST["index"];
```

```

$arr=array(
    array(1,2,3,4,5),
    array("ganesh","gopal","ram","rohan","rakesh")
);
switch ($choice) {
    case 'display':
        echo"The original array is:". "<br>";
        for($i=0;$i<count($arr);$i++)
        {
            for($j=0;$j<count($arr[$i]);$j++)
            {
                echo$arr[$i][$j]. " ";
            }
            echo"<br>";
        }
        break;
    case 'search':
        echo"the value of search is:". $arr[0][$index]. " ". $arr[1][$index];
        break;
}
}
?>

```

SET B:

1. Write a PHP script to perform the following operations on string :

- i) Compare string 2 with string3.
- ii) Convert all the strings to Upper case
- iii) Convert all the strings to Lowercase.

ANS:

HTML & PHP CODE:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

</head>

<body>

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

        <label for="str1"><b>Enter first string:</b></label>

        <input type="text" name="str1" id="str1"><br>

        <br>

        <label for="str2"><b>Enter second string:</b></label>

        <input type="text" name="str2" id="str2"><br>

        <br>

        <label for="select"><b>Select choice:</b></label>

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

            <option value="compare">compare two strings</option>

            <option value="uppercase">convert upper case</option>

            <option value="lowercase">convert lower case</option>

        </select>

        <br>

        <br>

        <input type="submit" name="submit" id="submit" value="submit">

        <input type="reset" name="reset" id="reset" value="reset">

    </form>

</body>

</html>

<?php
error_reporting(0);
if(isset($_POST["submit"]))
```

```
{
    $str1=$_POST["str1"];
    $str2=$_POST["str2"];
    $choice=$_POST["select"];

    switch ($choice) {
        case 'compare':
            if(strcmp($str1,$str2)>0)
            {
                echo"<b>".$str1."</b>"." string is greater";
            }else if(strcmp($str1,$str2)<0){
                echo"<b>".$str2."</b>"." string is greater";
            }else{
                echo"both strings are equal!";
            }
            break;
        case 'uppercase':
            $up1=strtoupper($str1);
            $up2=strtoupper($str2);
            echo"uppercase strings are:".$up1." ".$up2;
            break;
        case 'lowercase':
            $lo1=strtolower($str1);
            $lo2=strtolower($str2);
            echo"lowercase strings are:".$lo1." ".$lo2;
            break;
    }
}
?>
```

2. Write a PHP script to perform the following operations on string :

i) Convert each word of a string to Lowercase and Uppercase.

ii) Find the first and last occurrence of string2 in string1.

ANS:

HTML & PHP CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form action="#" method="POST">
        <label for="str1"><b>Enter first string:</b></label>
        <input type="text" name="str1" id="str1"><br>
        <br>
        <label for="str2"><b>Enter second string:</b></label>
        <input type="text" name="str2" id="str2"><br>
        <br>
        <label for="select"><b>Select choice:</b></label>
        <select name="select" id="select">
            <option value="lowercase">convert each word into lowercase</option>
            <option value="uppercase">convert each word into uppercase</option>
            <option value="occurrences">find first and last occurrences of string 2 in string1</option>
        </select><br>
        <br>
        <input type="submit" name="submit" id="submit" value="submit">
        <input type="reset" name="reset" id="reset" value="reset">
    </form>
</body>
```

```
</html>

<?php
error_reporting(0);
if(isset($_POST["submit"]))
{
    $str1=$_POST["str1"];
    $str2=$_POST["str2"];
    $choice=$_POST["select"];

    switch ($choice) {
        case 'lowercase':
            echo"The first string is :".lcfirst($str1)."<br>";
            echo"The second string is :".lcfirst($str2);
            break;
        case 'uppercase':
            echo"The first string is :".ucfirst($str1)."<br>";
            echo"The second string is :".ucfirst($str2);
            break;
        case 'occurrences':
            $len=strlen($str2);
            $cf=0;
            $cl=0;
            echo$str2[$len-1]."<br>";
            echo$str2[0]."<br>";
            for($i=0;$i<strlen($str1);$i++)
            {
                if($str2[$len-1]==$str1[$i])
                {
                    $cl++;
                }else if($str2[0]==$str1[$i])
                {
```

```

        $cf++;
    }
}

echo"first count is:". $cf."<br>";

echo"last count is:". $cl."<br>";

break;

}

}

?>

```

3. Write a menu-driven program in PHP to perform the following operations on associative arrays:

- i) Sort the array by values (changing the keys) in ascending, descending order.**
- ii) Also, sort the array by values without changing the keys.**
- iii) Find the intersection of two arrays.**
- iv) Find the union of two arrays.**

ANS:

HTML & PHP CODE:

```

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

</head>

<body>

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

        <label for="select"><b>Select choice:</b></label>

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

            <option value="sort1">sort by value in ascending order</option>

```



```

        <option value="sort2">sort by value in descending order</option>

        <option value="intersection">intersection</option>

        <option value="union">union</option>
    </select>

    <br>

    <br>

    <input type="submit" name="submit" id="submit" value="submit">

    <input type="reset" name="reset" id="reset" value="reset">

</form>
</body>
</html>

<?php
error_reporting(0);
if(isset($_POST["submit"]))
{
    $choice=$_POST["select"];
    $arr1=array("c"=>"choice","k"=>"key","v"=>"value","u"=>"union","i"=>"intersection");
    $arr2=array("c"=>"choice","k"=>"key","v"=>"value","p"=>"php");
    switch ($choice) {
        case 'sort1':
            echo"The original first array is:". "<br>";
            echo"<pre>";
            foreach($arr1 as $k=>$v)
            {
                echo$k." " . "=>" . " " . $v."<br>";
            }
            echo"</pre>";
            echo"<br>". "The original second array is:". "<br>";
            echo"<pre>";
            foreach($arr2 as $k=>$v)
            {

```

```

        echo$ k." " .=>". " ".$v."<br>";
    }
    echo"</pre>";
    asort($arr1);
    echo"The sorted first array is in ascending order:".<br>";
    echo"<pre>";
    foreach($arr1 as $k=>$v)
    {
        echo$ k." " .=>". " ".$v."<br>";
    }
    echo"</pre>";
    asort($arr2);
    echo"<br>". "The sorted second array is in ascending order:".<br>";
    echo"<pre>";
    foreach($arr2 as $k=>$v)
    {
        echo$ k." " .=>". " ".$v."<br>";
    }
    echo"</pre>";
    break;
case 'sort2':
    echo"The original first array is:".<br>";
    echo"<pre>";
    arsort($arr1);
    foreach($arr1 as $k=>$v)
    {
        echo$ k." " .=>". " ".$v."<br>";
    }
    echo"</pre>";
    echo"<br>". "The original second array is:".<br>";
    echo"<pre>";

```

```

    arsort($arr1);
    foreach($arr1 as $k=>$v)
    {
        echo$k." " . "=>" . " " . $v . "<br>";
    }
    echo"</pre>";
    echo"The sorted first array is in descending order:" . "<br>";
    echo"<pre>";
    foreach($arr1 as $k=>$v)
    {
        echo$k." " . "=>" . " " . $v . "<br>";
    }
    echo"</pre>";
    arsort($arr2);
    echo"<br>". "The sorted second array is in descending order:" . "<br>";
    echo"<pre>";
    foreach($arr2 as $k=>$v)
    {
        echo$k." " . "=>" . " " . $v . "<br>";
    }
    echo"</pre>";
    break;
case 'intersection':
    echo"The original first array is:" . "<br>";
    echo"<pre>";
    foreach($arr1 as $k=>$v)
    {
        echo$k." " . "=>" . " " . $v . "<br>";
    }
    echo"</pre>";
    echo"<br>". "The original second array is:" . "<br>";

```

```

echo"<pre>";
foreach($arr2 as $k=>$v)
{
    echo$k." " .=>" " ".$v."<br>";
}
echo"</pre>";
echo"<br>";
echo"Intersection of two arrays are:".<br>";
echo"<pre>";
$arr3=array_intersect_assoc($arr1,$arr2);
foreach($arr3 as $k=>$v)
{
    echo$k." " .=>" " ".$v."<br>";
}
echo"</pre>";
break;
case 'union':
    echo"The original first array is:".<br>";
    echo"<pre>";
    foreach($arr1 as $k=>$v)
    {
        echo$k." " .=>" " ".$v."<br>";
    }
    echo"</pre>";
    echo"<br>". "The original second array is:".<br>";
    echo"<pre>";
    foreach($arr2 as $k=>$v)
    {
        echo$k." " .=>" " ".$v."<br>";
    }
    echo"</pre>";

```

```

        echo"<br>";

        echo"Union of two arrays are:". "<br>";

        echo"<pre>";

        $arr3=array_merge($arr1,$arr2);

        $arr3=array_unique($arr3);

        foreach($arr3 as $k=>$v)

        {

            echo$k." " .=>" " ".$v."<br>";

        }

        echo"</pre>";

        break;

    }

}

?>

```

SET C:

1. Write a PHP script to perform the following operations on string :

- i) Replace the string2 by string3 in string1.
- ii) Reverse and display the string.

ANS:

HTML & PHP CODE:

```

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

</head>

<body>

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

```

```

<label for="str1"><b>Enter main string:</b></label>

<input type="text" name="str1" id="str1"><br>

<br>

<label for="str2"><b>Enter find string:</b></label>

<input type="text" name="str2" id="str2"><br>

<br>

<label for="r"><b>Enter replace string:</b></label>

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

    <br>

<label for="select"><b>Select choice:</b></label>

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

    <option value="replace">replace string2 by string 3 in string 1</option>

    <option value="reverse">reverse and display string</option>

</select><br>

<br>

<input type="submit" name="submit" id="submit" value="submit">

<input type="reset" name="reset" id="reset" value="reset">

</form>

</body>

</html>

<?php
if(isset($_POST["submit"]))
{
    $str1=$_POST["str1"];
    $str2=$_POST["str2"];
    $str3=$_POST["r"];
    $choice=$_POST["select"];

    switch ($choice) {
        case 'replace':
            echo"first string is:". $str1."<br>";

```

```
    echo"second string is:". $str2."<br>";
    echo"third string is:". $str3."<br>";
    $size=strlen($str1);
    echo"replace string is:".str_replace($str2,$str3,$str1,$size)."<br>";
    break;
case 'reverse':
    echo"First reverse string is:".strrev($str1)."<br>";
    echo"second reverse string is:".strrev($str2)."<br>";
    break;
}
}
?>
```
