Practical: 3

Aim: Perform following programs of PHP Array & it's inbuilt function.

```
Q.1 Write a PHP program to find out maximum and minimum number from an array.
Program:
<?php
function findMax($arr)
  return max($arr);
function findMin($arr)
  return min($arr);
?>
Q.2 Write a PHP program to reverse an array.
Program:
<?php
function reverseArray($arr)
{
  return array_reverse($arr);
?>
Q.3 Write a PHP program to merge two arrays.
Program:
<?php
function mergeArray(...$array){
  $tempArray = array();
  foreach($array as $it)
  {
    $tempArray=array_merge($tempArray,$it);
  return $tempArray;
?>
```

```
Q.4 Write a PHP program to sort an array.
Program:
<?php
function sortArray($array)
  sort($array);
  return $array;
?>
Q.5 Write a PHP program to search element from an array.
Program:
<?php
function searchArray($searchString,$array)
  return array_search($searchString, $array);
?>
Q.6 Write a PHP program to remove duplicate values from an array.
Program:
<?php
function removeDuplicateArray($array,$flag=null)
  if($flag!=null)
  {
    return array_unique($array,$flag);
  else{
    return array_unique($array);
?>
```

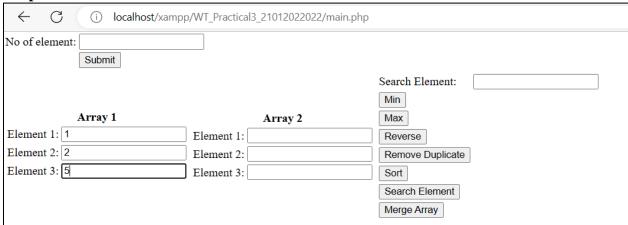
```
PHP Application of about questions.
Program:
<?php
include('./q1.php');
include('./q2.php');
include('./q3.php');
include('./q4.php');
include('./q5.php');
include('./q6.php');
?>
<html>
  <body>
   <form method="post" action="">
     No of element: 
         <input type="text" name="arrayLen"/>
       <input type="submit" name="getArraySize"/>
       <form method="post" action="">
     <?php
             if(isset($_POST['getArraySize']))
               echo "";
               echo "";
               echo "Array 1";
               $arraySize=$_POST['arrayLen'];
               for($i=1;$i<=$arraySize;$i++)
                 echo "";
                 echo "Element $i: ";
                 echo "<input type='text' name='e".$i."'/>";
                 echo "";
```

```
echo "<input type='hidden' name='arrLen'
 value=".\$arraySize.""/>";
 echo "":
 echo "";
 echo "":
 echo "Array 2";
 for(\hat{i}=1;\hat{s}i<=\hat{s}arraySize;\hat{s}i++)
   echo "";
   echo "Element $i: ";
   echo "<input type='text' name='ae".$i."'/>";
   echo "";
 echo "style='text-align:top;'>";
 echo "Search Element: <input
 type='text' name='arraySearchElement'/>";
 echo "<input type='submit' name='arrayMin'
 value='Min'/>";
 echo "<input type='submit' name='arrayMax'
 value='Max'/>";
 echo "<input type='submit' name='arrayReverse'
 value='Reverse'/>";
 echo "<input type='submit'
 name='arrayFilterDuplicate'
 value='Remove Duplicate'/>";
 echo "<input type='submit' name='arraySort'
 value='Sort'/>";
 echo "<input type='submit' name='arraySearch'
 value='Search Element'/>";
 echo "<input type='submit' name='arrayCombine'
 value='Merge Array'/>";
 echo "";
if(isset($_POST['arrayMin']))
 arr = array();
 for (\$i = 1; \$i \le \$POST['arrLen']; \$i++)
```

```
array_push($arr,$_POST['e'.$i]);
  echo "Min element of array is: ",findMin($arr);
if(isset($_POST['arrayMax']))
  arr = array();
  for (\$i = 1; \$i \le \$_POST['arrLen']; \$i++)
     array_push($arr,$_POST['e'.$i]);
  echo "Max element of array is: ",findMax($arr);
if(isset($_POST['arrayReverse']))
  arr = array();
  for (\$i = 1; \$i \le \$_POST['arrLen']; \$i++)
     array_push($arr,$_POST['e'.$i]);
  echo "Original Array is: ";
  print_r($arr);
  echo "<br/>br>Reverse array is: ";
  print_r(reverseArray($arr));
if(isset($_POST['arrayFilterDuplicate']))
  arr = array();
  for (\$i = 1; \$i \le \$ POST['arrLen']; \$i++)
     array_push($arr,$_POST['e'.$i]);
  echo "Original Array is: ";
  print_r($arr);
  echo "<br/>Filter array is: ";
  print_r(removeDuplicateArray($arr));
```

```
if(isset($_POST['arraySort']))
  arr = array();
  for (\$i = 1; \$i \le \$_POST['arrLen']; \$i++)
     array_push($arr,$_POST['e'.$i]);
  echo "Original Array is: ";
  print_r($arr);
  echo "<br/>br>Sorted Array is: ";
  print_r(sortArray($arr));
if(isset($_POST['arraySearch']))
  arr = array();
  for (\$i = 1; \$i \le \$_POST['arrLen']; \$i++)
     array_push($arr,$_POST['e'.$i]);
  $searchElement = $_POST['arraySearchElement'];
  $ind = searchArray($searchElement, $arr);
  if($ind!=-1)
  {
     echo "$searchElement found at: $ind";
  else{
     echo "Element Not Found";
if(isset($_POST['arrayCombine']))
  \$arr1 = array();
  \$arr2 = array();
  for (\$i = 1; \$i \le \$_POST['arrLen']; \$i++)
     array_push($arr1,$_POST['e'.$i]);
     array_push($arr2,$_POST['ae'.$i]);
```

Output: MIN



← C	i localhost/xampp/WT_Practical3_21012022022/main.php	
No of element: Submit Min element of array is: 1		

Output: MAX

< C	i) localhost/xamp	o/WT_Practical3_21012022022/main.ph	р
No of element:			
	Submit		
			Search Element:
			Min
	Array 1	Array 2	Max
Element 1: 1		Element 1:	Reverse
Element 2: 2		Element 2:	Remove Duplicate
Element 3: 5		Element 3:	Sort
		Diemoni 3.	Search Element
			Merge Array
← C i localhost/xampp/WT_Practical3_21012022022/main.php			
No of ele	ment:		
	Cubmit		
	Submit	•	
Max element of array is: 5			

Output: Reverse

Output. Reverse			
← C (i) localhost/xamp	p/WT_Practical3_21012022022/mair	.php	
No of element: Submit			
		Search Element:	
Array 1	Array 2	Min	
Element 1: 1	Element 1:	Reverse	
Element 2: 2	Element 2:	Remove Duplicate	
Element 3: 5	Element 3:	Sort	
		Search Element	
		Merge Array	
← C i localhost/xampp/WT_Practical3_21012022022/main.php			
No of element:			
Submit			
Original Array is: Array ([0] => 1 [1] => 2 [2] => 5)			
Reverse array is: Array ($[0] => 5[1] => 2[2] => 1$)			
,	[] -[-] -/		

Output: Sort

← C (i) localhost/xampp	p/WT_Practical3_21012022022/main.php		
No of element:			
Submit			
		Search Element:	
Array 1	Array 2	Min	
Element 1: 114	Element 1:	Max	
Element 2: 9	Element 2:	Reverse	
Element 3: 68	Element 3:	Remove Duplicate	
Element 4: 234	Element 4:	Sort	
Element 5: 12	Element 5:	Search Element	
		Merge Array	
← C (i) loc	calhost/xampp/WT_Practica	al3_21012022022/main.php	
No of element:			
Submit			
Original Array is: Array ([0] => 114 [1] => 9 [2] => 68 [3] => 234 [4] => 12)			
Sorted Array is: Array ([0] => 9 [1] => 12 [2] => 68 [3] => 114 [4] => 234)			

Output: Remove Duplicate

Output. Remove Duplicate			
← → C (i) localhost/xampp/WT_Practical3_21012022022/main.php			
No of element:			
Submit			
		Search Element:	
Array 1	Array 2	Min	
Element 1: 114	Element 1:	Max	
Element 2: 12	Element 2:	Reverse	
Element 3: 68	Element 3:	Remove Duplicate	
Element 4: 1	Element 4:	Sort	
Element 5: 12	Element 5:	Search Element	
		Merge Array	
← C i localhost/xampp/WT_Practical3_21012022022/main.php			
No of element:			
Submit			
Original Array is: Array ([0] => 114 [1] => 12 [2] => 68 [3] => 1 [4] => 12)			
Filter array is: Array ([0] => 114 [1] => 12 [2] => 68 [3] => 1)			
([0] [-] [-] [-] ([-]			

Output: Search Element

<u> </u>			
\leftarrow \rightarrow \bigcirc (i) localhost	/xampp/WT_Practical3_21012022022/mai	in.php	
No of element: Submit		Search Element: 68	
Array 1	Array 2	Min	
Element 1: 114	Element 1:	Max	
Element 2: 12	Element 2:	Reverse	
Element 3: 68	Element 3:	Remove Duplicate	
Element 4: 1	Element 4:	Sort	
Element 5: 12	Element 5:	Search Element	
		Merge Array	
← C i localhost/xampp/WT_Practical3_21012022022/main.php			
No of element:			
Submit			
58 found at : 2			

Output: Merge Array

← → C (i) localhost	t/xampp/WT_Practical3_21012022022/m	ain.php	
No of element: Submit		Search Element:	
Array 1	Array 2	Min	
Element 1: 114	Element 1: 12	Max	
Element 2: 12	Element 2: 78	Reverse	
Element 3: 68	Element 3: 656	Remove Duplicate	
Element 4: 1	Element 4: 3294	Sort	
Element 5: 12	Element 5: 78745	Search Element	
		Merge Array	
← C (i) localhost/xampp/WT_Practical3_21012022022/main.php			
No of element: Submit			
Array 1 is: Array ([0] => 114 [1] => 12 [2] => 68 [3] => 1 [4] => 12)			
Array 2 is: Array ([0] => 12 [1] => 78 [2] => 656 [3] => 3294 [4] => 78745) Final Array is: Array ([0] => 114 [1] => 12 [2] => 68 [3] => 1 [4] => 12 [5] => 12 [6] => 78 [7] => 656 [8] => 3294 [9] => 78745)			