Sorting an Array

} ?>

Ordering data in an increasing or decreasing fashion.

1) **Sort:** Sorting an index array in ascending order.

```
<?php
$num=array(2,5,3,4,1);
sort($num);
$length=count($num);
for($i=0;$i<$length;$i++)
{
    echo $num[$i];
    echo "<br/>    echo";
} ?>
```

2) **rsort:** Sorting an index array in descending order.

```
<?php
$num=array(2,5,3,4,1);
rsort($num);
$length=count($num);
for($i=0;$i<$length;$i++)
{
        echo $num[$i];
        echo "<br/>;
} ?>
```

asort: Sorting an associative array in ascending order according to value.?php

```
$\text{sage=array("Ram"=>29,"Hari"=>39,"Gopal"=>19);}
asort($\text{sage});
$\text{length=count($\text{sage});}
$\text{Key: Gopal & Value: 19}
$\text{Key: Ram & Value: 29}
$\text{Key: Hari & Value: 39}
$\text{Key: Hari & Value: 39}
$\text{Equiv.}$\text{Copal & Value: 29}
$\text{Key: Ram & Value: 39}
$\text{Key: Hari & Value: 39}
$\text{Equiv.}$\text{Copal & Value: 29}
$\text{Key: Hari & Value: 39}
$\text{Equiv.}$\text{Copal & Value: 29}
$\text{Key: Hari & Value: 39}
$\text{Equiv.}$\text{Copal & Value: 29}
$\text{Key: Hari & Value: 39}
$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\text{Equiv.}$\t
```

?>

5) krsort: Sorting an associative array in descending order according their key.

Q . Store the percentage of 4 students in an array ,so that % in a linear way & display the results in a tabular form.

<?php

PHP function with parameter

```
<?php
function addnum($num1,$num2)
{     echo"sum of the given numbers : ".($num1+$num2);
     echo"<br/>
     echo"<br/>
}
function subnum($num1,$num2)
{     echo"Difference of the given numbers : ".($num1-$num2);
     echo"<br/>
     echo"<br/>
}
function product($num1,$num2)
{
     echo"product of the given numbers : ".($num1*$num2);
}
```

```
echo"<br>";
function Division($num1,$num2)
      echo"Division of the given numbers: ".($num1/$num2);
      echo"<br>";
function Remender($num1,$num2)
      echo"Remender of the given numbers: ".($num1%$num2);
      echo"<br>";
function operation($num1,$num2,$opr)
      switch($opr)
                                         sum of the given numbers: 7
                                         Difference of the given numbers: 5
              case "+":
                                         Division of the given numbers: 5.8
              addnum($num1,$num2);
                                         Remender of the given numbers: 4
              break:
              case "-":
                                         product of the given numbers: 2250
              subnum($num1,$num2);
              break;
              case "*":
              product($num1,$num2);
              break;
              case "/":
              Division($num1,$num2);
              break;
              case "%":
              Remender($num1,$num2);
              break:
              default:
              echo"Invalid operators you Entered";
} operation(2,5,"+");
operation(7,2,"-");
operation(29,5,"/");
operation(60,7,"%");
operation(50,45,"*");
?>
```

```
Pass by value
```

Pass by reference

```
<?php
function addfive(&$num)
{
    $num+=5;
    }
function addsix(&$num)
{
    $num+=6;
    }
$orginum=10;
addfive($orginum);
echo "orginal value is :".$orginum."<br>";
addsix($orginum);
echo "orginal value is :".$orginum;
?>
```

WAP to store a information with an array displaying the value of array using function also display the no. of elements using an array

```
<?php
$age=array("Ram"=>20,"Hari"=>21,"Gita"=>22);
function display($me)
{
  asort($me);
  foreach($me as $key=>$value)
  {
  echo " key : ".$key." value : ".$value."<br>";
        }
$length=count($me);
  echo "Total no of elements is :".$length;
    }
display($age);
?>
```

key: Hari value: 21 key: Gita value: 22 Total no of elements is:3

key: Ram value: 20

Funtion returning a value

```
<?php
function subnum($num,$num2)
{
        $difference=$num-$num2;
        return $difference;
}
$result=subnum(20,10);
echo "difference of two number :".$result."<br>
function addnum($num,$num2)
{
        $sum=$num+$num2;
        return $sum;
}
$result1=addnum(5,10);
echo "sum of the two number :".$result1."<br/>
*?>
```

```
WAP in php to take input from the user using form and calculate the
<html>
<body>
<form name="calfactorial" method="POST" action=" ">
<label for="name"> Enter Your Number for Calculation of Factorial : </label>
<input type="number" name="num"><br>
<button type="submit" name="submission"> Submit</button>
</form>
</body>
</html>
<?php
if($ SERVER['REQUEST METHOD']=="POST")
     $number=$ REQUEST['num'];
     if(empty($number))
echo "OHH!!! you not provide number so please input number first!!!
"."<br>":
      else
     function fact ($factnum)
             $facts=1;
     if ($factnum==0)
                     echo "Factorial of ".$factnum." is: 1";
      else
                     for ($i = 1; $i <= $factnum; $i++)
                             $facts=$facts*$i; # code...
     /* Alternatively we can use following code for calculation of factorial.
                            for ($i=$factnum; $i<=$factnum; $i--) {
                                    $facts=$facts*$i; # code...
                             print "Factorial of ".$factnum." is: ".$facts;
                     }}
             fact($number);
             }} ?>
```

Enter Your Number for Calculation of Factorial: Submit Factorial of 5 is: 120 Change into UPPER or lower case <html> <body> <form action="" method="post"> <label>Input Any words : <label/> <input type="text" name="word" value=" <?php if(isset(\$ POST['WORD'])) { echo (\$ POST['WORD']); ?>"> <button type="submit" name="a">TO UPPER</button> <button type="submit" name="b">to lower</button> </form> <?php if(isset(\$_POST['a'])) \$name=\$ POST['word']; \$abcd=strtoupper(\$name); echo"
".\$abcd; if(isset(\$ POST['b'])) { \$name=\$_POST['word']; \$abcd=strtolower(\$name); echo"
".\$abcd; ?> </body> </html> Input Any words: TO UPPER to lower

```
Types of Array
<h3> Numeric Array :-</h3><br>
<?php
$num = array(1,2,3,4,5,6,7,8,9);
echo "Use particular print option: "." < br>".$num[4]." < br>";
echo "OR"."<br/>br><br/>"."Another way by using printr: "."<br/>";
?>
<
<?php
print r($num);
echo "<br>>";
<h3> Associative Array :-</h3><br>
<?php
$salaries = array('Ram' => 20000, 'Hari'=> 30000);
Name
           Web
           DBMS
           DSA
     <?php foreach ($marks as $key => $value)
     echo '';
    echo''.$key.'';
     foreach <?php
print r($salaries);
echo "<br>>";
?>
```

<h3> Multidimensational Array :-</h3>

<?php

```
$marks = array(
         "Gopal" => array(
              'web'=>20,
              'DBMS'=>40,
              'DSA'=>60
         "Hari" => array(
              'web'=>24.
                   'DBMS'=>43,
                   'DSA'=>62
        );
Numeric Array :-
Use particular print option:
OR
Another way by using printr :
Array
      [0] => 1
)
Associative Array :-
Array
      [Ram] => 20000
     [Hari] => 30000
Multidimensational Array :-
```

Marks of Gopal in web is :20

WAP to calculate the percentage of any student assumed your own subjet and display the division based on the percentage.

```
<?php
$math=70;
$sciece=80;
$cs=60;
$wt=50;
$dms=90;
$per=($math+$sciece+$cs+$wt+$dms)/5;
if($per>=32 && $per<=40)
     echo"<br/>
you Have Got Third Division With Total Marks: ".$per;
else if($per>40 && $per<=60)
     echo" < br > You Have Got Second Division With Total Marks: ".$per;
else if($per>60 && $per<=80)
     echo" < br > You Have Got First Division With Total Marks: ".$per;
else if($per>80 && $per<=100)
     echo" < br > You Have Got District Level With Total Marks: ".$per;
else
     echo"Sorry!!! you fail".$per;
?>
```

Result

You Have Got First Division With Total Marks: 70

Write a function take two numbers as parameter and display five numbers greater than second parameter and five numbers less than

```
five parameters.
<?php
function greaterless($num,$num2)
      # code...
      echo "Five Numbers Which are less than first number u entered
:"."<br><br>";
     for (\$i = 1; \$i \le 5; \$i ++)
             echo --$num."<br><br>";
      echo "Five Numbers Which are greater than second number u entered
:<br>";
      for (\$i = 1; \$i \le 5; \$i ++)
             echo ++$num2."<br>";
greaterless(5,8);
?>
Result
Five Numbers Which are less than first number u entered:
4
3
2
```

Five Numbers Which are greater than second number u entered:

9 10

1

11

12

13

Photo Upload

```
<html>
<head>
     <title>upload phpto</title>
</head>
<body>
<form method="post" enctype="multipart/form-data" >
     <input type="file" name="photo">
     <button type="submit" name="upload">upload</button>
</form>
<?php
if(isset($_POST['upload']))
     $name=$ FILES['photo']['name'];
     $src=$ FILES['photo']['tmp name'];
     $newname=time();
     $temp=explode(".",$name);
     $new_path=$newname.".".$temp[1];
     $name=$new path;
     $target dir="uploads/";
     $folder="uploads";
     if (!is_dir($folder))
             mkdir($folder,0755);
     move uploaded file($src, $target dir.$name);
?>
</body>
</html>
```

Modifying Arrays

```
1.
<?php
\alpha = array(1,2,3,4,5);
$length=count($array);
for($i=0;$i<$length;$i++)
      \frac{1}{3} = \frac{1}{3} + 10;
      echo"value : ".$array[$i];
      echo"<br>";
?>
2.
<?php
\array = array(1,2,3,4,5);
$array[2]=7;
foreach($array as $value)
echo $value."<br>";
?>
```

value : 11
value : 12
value : 13
value : 14
value : 15

1 2 7 4 5

Looping through index array

```
<?php
$cars=array("Shada","BMW","Toyota");
$length=count($cars);
for($i=0;$i<$length;$i++)
{
  echo"Name of cars : ".$cars[$i];
  echo"<br>";
}
?>
```

Name of cars : Shada Name of cars : BMW Name of cars : Toyota

```
<h3> Multidimensational Array :-</h3><br>
<?php
$prisoner = array(
              "Ram" => array(
                                      'jail'=>"central jail, ktm",
                                      'name'=>"Ram",
                                      'Duration'=>"5 years",
                                      'Address'=>"Gausala KTM",
                                      'Crime'=>"Killing peoples",
                      "Hari" => array(
                                      'jail'=>"central jail, ktm",
                                      'name'=>"Hari",
                                      'Duration'=>"6 Months",
                                      'Address'=>"Gausala KTM",
                                      'Crime'=>"Blackmaling",
              "Gita" => array(
                                      'jail'=>"central jail, Butwal",
                                      'name'=>"Gita",
                                      'Duration'=>"10 years",
                                      'Address'=>"Dhangadi",
                                      'Crime'=>"Killing peoples",
              "Rama" => array(
                                      'jail'=>"Dhangadi jail",
                                      'name'=>"Rama",
                                      'Duration'=>"2 Weeks",
                                      'Address'=>"Biratnagar KTM",
                                      'Crime'=>"Simple Robbery",
              "Sita" => array(
                                      .'jail'=>"Ilam jail",
                                      name'=>"Sita",
                                      'Duration'=>"1 year",
```

```
'Address'=>"ilam-12,ilam KTM",
                          'Crime'=>"curruption",
         );
?>
Jail Name
         Prisoner Name
         Duration In Jail
         Address of Prisoner
         Crime
    <?php foreach ($prisoner as $key => $value)
    echo '';
    foreach ($value as $key1 => $value1)
     ?>
         <?php echo $value1; ?>
     <?php
    echo '';
    ?>
```

Jail Name	Prisoner Name	Duration In Jail	Address of Prisoner	Crime
central jail, ktm	Ram	5 years	Gausala KTM	Killing peoples
central jail, ktm	Hari	6 Months	Gausala KTM	Blackmaling
central jail, Butwal	Gita	10 years	Dhangadi	Killing peoples
Dhangadi jail	Rama	2 Weeks	Biratnagar KTM	Simple Robbery
Ilam jail	Sita	1 year	ilam-12,ilam KTM	curruption

WAP in php to find out the greatest number among the three numbers.

```
<?php
$a=5;
$b=7;
$c=9;
if($a>$b && $a>$c) {
        echo"<br/>br> A is a greatest numbrer : ".$a;
}
else if($b>$a && $b>$c) {
        echo"<br/>br> B is the greatest number : ".$b;
}
else {
        echo"<br/>crising the greatest number : ".$c;
}
?>
```

PHP function with parameter

```
<?php
function addnum($num1,$num2) {
     echo"sume of the given numbers: ".($num1+$num2);
     echo"<br>";
function subnum($num1,$num2) {
     if($num1>$num2)
     echo"Difference of the given numbers: ".($num1-$num2);
     echo"<br>";
     else
     echo"Difference of the given numbers: ".($num2-$num1);
     echo"<br>";
     } }
function product($num1,$num2) {
     echo"product of the given numbers : ".($num1*$num2);
     echo"<br>";
function Division($num1,$num2) {
```

```
if($num1>$num2)
     echo"Division of the given numbers: ".($num1/$num2);
     echo"<br>";
     else
     echo"Division of the given numbers: ".($num2/$num1);
     echo"<br>";
function Remender($num1,$num2) {
     if($num1>$num2)
     echo"Remender of the given numbers: ".($num1%$num2);
     echo"<br>";
     else
     echo"Remender of the given numbers: ".($num2%$num1);
     echo"<br>";
     } }
function operation($num1,$num2,$opr) {
     switch($opr)
             case "+":
             addnum($num1,$num2);
             break;
             case "-":
             subnum($num1,$num2);
             break;
             case "*":
             product($num1,$num2);
             break;
             case "/":
             Division($num1,$num2);
             break:
             case "%":
             Remender($num1,$num2);
             break;
             default:
             echo"Invalid operators you Entered";
     }}
```

```
operation(2,5,"+");
operation(2,5,"-");
operation(2,5,"/");
operation(2,5,"%");
operation(2,5,"*");
?>
```

C is the greatest number: 9

PHP \$GLOBALS avriables

```
<?php
$x = 75;
$y = 25;
function addition() {
   $GLOBALS['z'] = $GLOBALS['x'] + $GLOBALS['y'];
}
addition();
echo $z;
?>
```

Output is

100

\$_SERVER['SERVER_ADDR']	Returns the IP address of the host
	server
\$_SERVER['SERVER_NAME']	Returns the name of the host
	server (such as
	www.w3schools.com)
\$_SERVER['SERVER_SOFTWARE']	Returns the server identification
	string (such as Apache/2.2.24)
\$_SERVER['SERVER_PROTOCOL']	Returns the name and revision of
	the information protocol (such as
	HTTP/1.1)
\$_SERVER['REQUEST_METHOD']	Returns the request method used to
	access the page (such as POST)
\$_SERVER['REQUEST_TIME']	Returns the timestamp of the start
	of the request (such as
	1377687496)

POST

- The POST method transfers information via HTTP headers. The information is encoded as described in case of GET method and put into a header called OUERY STRING.
- The POST method does not have any restriction on data size to be sent.
- The POST method can be used to send ASCII as well as binary data.
- The data sent by POST method goes through HTTP header so security depends on HTTP protocol. By using Secure HTTP you can make sure that your information is secure.
- The PHP provides **\$_POST** associative array to access all the sent information using POST method.

GET

- The GET method sends the encoded user information appended to the page request. The page and the encoded information are separated by the ? character.
- The GET method is restricted to send upto 1024 characters only.
- GET can't be used to send binary data, like images or word documents, to the server.
- The data sent by GET method can be accessed using QUERY_STRING environment variable.
- The PHP provides \$_GET associative array to access all the sent information using GET method.
- Never use GET method if you have password or other sensitive information to be sent to the server.

A superglobal is a predefined variable that is always accessible, regardless of scope. You can access the PHP superglobals through any function, class, or file.

PHP's superglobal variables are \$_SERVER, \$GLOBALS, \$_REQUEST, \$_POST, \$_GET, \$_FILES, \$_ENV, \$_COOKIE, \$_SESSION.

\$ SERVER

\$_SERVER is an array that includes information such as headers, paths, and script locations. The entries in this array are created by the web server

```
<?php
echo $_SERVER['SCRIPT_NAME'];
//Outputs "/somefile.php"
?>
```

PHP \$_REQUEST

PHP \$_REQUEST is used to collect data after submitting an HTML form.

```
<html>
<body>
<form method="post" action="<?
Name: <input type="text" name="fname">
Address :<input type="text" name="address">
<button type="submit" name= "submitbtn">Submit</button>
</form>

// collect value of input field
$name = $_REQUEST['fname'];
if (empty($name)) || (empty($ address))
```

```
{
    echo "Name or Address is empty";
} else {
    echo $name;
    echo $address;
}
}

</body>
</html>
```

PHP \$_POST

Information sent from a form via the **POST** method is invisible to others, since all names and/or values are embedded within the body of the HTTP request.

Also, there are no limits on the amount of information to be sent.

Moreover, POST supports advanced functionality such as support for multipart binary input while uploading files to the server.

However, it is not possible to bookmark the page, as the submitted values are not visible.