

Exercises

1. \$color = array('white', 'green', 'red')

Write a PHP script which will display the colors in the following way :

Output :

white, green, red,

- green
- red
- white

PHP Code:

```
<?php
$color = array('white', 'green', 'red');
foreach ($color as $c)
{
    echo "$c, ";
}
sort($color);
echo "<ul>";
foreach ($color as $y)
{
    echo "<li>$y</li>";
}
echo "</ul>";
?>
```

2. \$x = array(1, 2, 3, 4, 5);

Delete an element from the above array. After deleting the element, integer keys must be normalized.

• PHP Code:

1. <?php
2. \$x = array(1, 2, 3, 4, 5);

```
3. var_dump($x);
4. unset($x[3]);
5. $x = array_values($x);
6. echo '
7. ';
8. var_dump($x);
9. ?>
```

1. Write a PHP script to sort the following associative array :

array("Sophia"=>"31","Jacob"=>"41","William"=>"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

```

<?php
echo "
Associative array : Ascending order sort by value
";
$array2=array("Sophia"=>"31","Jacob"=>"41","William"=>"39","Ramesh"=>"
40"); asort($array2);
foreach($array2 as $y=>$y_value)
{
echo "Age of ".$y." is : ".$y_value."
";
}
echo "
Associative array : Ascending order sort by Key
";
$array3=array("Sophia"=>"31","Jacob"=>"41","William"=>"39","Ramesh"=>"
40"); ksort($array3);
foreach($array3 as $y=>$y_value)
{
echo "Age of ".$y." is : ".$y_value."
";
}
echo "
Associative array : Descending order sorting by Value
";
$age=array("Sophia"=>"31","Jacob"=>"41","William"=>"39","Ramesh"=>"40"
);
arsort($age);
foreach($age as $y=>$y_value)
{
echo "Age of ".$y." is : ".$y_value."
";
}
echo "
Associative array : Descending order sorting by Key
";
$array4=array("Sophia"=>"31","Jacob"=>"41","William"=>"39","Ramesh"=>"
40"); krsort($array4);
foreach($array4 as $y=>$y_value)
{
echo "Age of ".$y." is : ".$y_value."
";
}
?>

```

2. `$color = array(4 => 'white', 6 => 'green', 11=> 'red');`
Write a PHP script to get the first element of the above array.

Sample Solution:

PHP Code:

```
<?php
$color = array(4 => 'white', 6 => 'green', 11=> 'red');
echo reset($color)."\n";
?>
```

3. Write a PHP script to print "second" and Red from the following array.

Sample Data :

```
$color = array ( "color" => array ( "a" => "Red", "b" => "Green", "c" => "White"),
"numbers" => array ( 1, 2, 3, 4, 5, 6 ),
"holes" => array ( "First", 5 => "Second", "Third"));
```

Sample Solution:

PHP Code:

```
<?php
```

```
$color = array ( "color" => array ( "a" => "Red", "b" => "Green", "c"
=> "White"),

"numbers" => array ( 1, 2, 3, 4, 5, 6 ),

"holes" => array ( "First", 5 => "Second", "Third"));

echo $color["holes"][5]."\n"; // prints "second"

echo $color["color"]["a"]."\n"; // prints "Red"

?>
```

4. Write a PHP script to sort the following array by the day (page_id) and username.

Sample Solution:

PHP Code:

```
<?php
$arr[0]["transaction_id"] = "2025731470";
$arr[1]["transaction_id"] = "2025731450";
$arr[2]["transaction_id"] = "1025731456";
$arr[3]["transaction_id"] = "1025731460";
$arr[0]["user_name"] = "Sana";
$arr[1]["user_name"] = "Illiya";
$arr[2]["user_name"] = "Robin";
$arr[3]["user_name"] = "Samantha";
```

```

//convert timestamp to date
function convert_timestamp($timestamp){
    $limit=date("U");
    $limiting=$timestamp-$limit;
    return date ("Ymd", mktime (0,0,$limiting));
}
//comparison function
function cmp ($a, $b) {
    $l=convert_timestamp($a["transaction_id"]);
    $k=convert_timestamp($b["transaction_id"]);
    if($k==$l){
        return strcmp($a["user_name"], $b["user_name"]);
    }else{
        return strcmp($k, $l);
    }
}
//sort array
usort($arra, "cmp");

//print sorted info
while (list ($key, $value) = each ($arra)) {
    echo "\$arra[$key]: ";
    echo $value["transaction_id"];
    echo " user_name: ";
    echo $value["user_name"];
    echo "\n";
}
?>

```

5. Write a PHP script to trim all the elements in an array using array_walk function.

Sample Solution:

PHP Code:

```

<?php

$colors = array( "Red ", " Green", "Black ", " White ");

print_r($colors);

array_walk($colors, create_function('&$val', '$val = trim($val);'));

```

```
print_r($colors);  
?>
```

6. Write a PHP program to identify the email addresses which are not unique.

Sample Solution:

PHP Code:

```
<?php  
function array_not_unique($my_array) {  
    $same = array();  
    natcasesort($my_array);  
    reset ($my_array);  
  
    $old_key    = NULL;  
    $old_value  = NULL;  
    foreach ($my_array as $key => $value) {  
        if ($value === NULL) { continue; }  
        if ($old_value == $value) {  
            $same[$old_key]    = $old_value;  
            $same[$key]        = $value;  
        }  
        $old_value  = $value;  
        $old_key    = $key;  
    }  
    return $same;  
}  
  
$test_array = array();  
$test_array[1]    = 'xyz@example.com';  
$test_array[2]    = 'dse@example.com';  
$test_array[3]    = 'xyz@example.com';  
$test_array[4]    = 'mno@example.com';  
  
print_r(array_not_unique($test_array));  
?>
```

7. Write a PHP script to remove nonnumeric characters except comma and dot.

Sample string : '\$123,34.00A'

PHP Code:

```
<?php
$str1 = "$12,334.00A";
echo preg_replace("/[^0-9,.]/", "", $str1)."\n";
?>
```

8. Write a PHP script to remove all characters from a string except a-z A-Z 0-9 or " ".

Sample string: abcde\$ddfd @abcd)der]

PHP Code:

```
<?php
$string = 'abcde$ddfd @abcd )der]';
echo 'Old string : '.$string.'';
$newstr = preg_replace("/[^A-Za-z0-9 ]/", '', $string);
echo 'New string : '.$newstr."\n";
?>
```

9. Write a PHP script to remove new lines (characters) from a string.

Sample strings : "Twinkle, twinkle, little star,\nHow I wonder what you are.\nUp above the world so high,\nLike a diamond in the sky.";

Sample Solution:

PHP Code:

```
<?php
$str = "Twinkle, twinkle, little star,\nHow I wonder what you are.\nUp above the world so high,\nLike a diamond in the sky.";
echo preg_replace('/\s+/', ' ', trim($str))."\n";
?>
```