Loops and Strings

1. Create a script using a for loop to add all the integers between 0 and 30 and display the total.
2. Write a program which will count the "t" characters in the text "techstudy"
3. Write a PHP script to convert lowercase string to uppercase
4. Write a PHP script to extract the user name from the email ID
5. Write a PHP script to get the last three characters of a string
6. Write a PHP script to replace the first 'the' of the following string with 'best
7. Write a PHP script to remove a part of a string from the beginning
8. Write a PHP script to remove comma(s) from the following numeric string
9. Write a PHP script to get the first word of a sentence
10. Write a program to convert the given string into an array. Suppose the string is -
11. $a = 'Burch Jr, Philip H., The American es
12. Write a PHP program to print all alphabets from a to z. – using while loop
13. Write a PHP program to find first and last digit of a number.
14. Write a PHP program to find sum of first and last digit of a number.
15. Write a PHP program to swap first and last digits of a number.
16. Write a PHP program to check whether a number is palindrome or not.
17. Write a PHP program to convert Octal to Binary number system.

Important links for Problem solving

1. https://exercism.org/tracks/php/exercises
2. https://edabit.com/challenges/php

Arrays

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

2) $ceu = array("Italy"=>"Rome", "Luxembourg"=>"Luxembourg", "Belgium"=>
"Brussels", "Denmark"=>"Copenhagen", "Finland"=>"Helsinki", "France" =>
"Paris", "Slovakia"=>"Bratislava", "Slovenia"=>"Ljubljana", "Germany" => "Berlin",
"Greece" => "Athens", "Ireland"=>"Dublin", "Netherlands"=>"Amsterdam",
"Portugal"=>"Lisbon", "Spain"=>"Madrid", "Sweden"=>"Stockholm", "United
Kingdom"=>"London", "Cyprus"=>"Nicosia", "Lithuania"=>"Vilnius", "Czech
Republic"=>"Prague", "Estonia"=>"Tallin", "Hungary"=>"Budapest",
"Latvia"=>"Riga", "Malta"=>"Valetta", "Austria" => "Vienna",
"Poland"=>"Warsaw") ;

Create a PHP script which displays the capital and country name from the
above array $ceu. Sort the list by the capital of the country.

Sample Output :
The capital of Netherlands is Amsterdam
The capital of Greece is Athens
The capital of Germany is Berlin
- -
- -

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

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

Sample Output :

array(5) { [0]=> int(1) [1]=> int(2) [2]=> int(3) [3]=> int(4) [4]=> int(5) }

array(4) { [0]=> int(1) [1]=> int(2) [2]=> int(3) [3]=> int(5) }

4) $color = array(4 => 'white', 6 => 'green', 11=> 'red');

Write a PHP script to get the first element of the above array.

Expected result : white

5) Write a PHP script that inserts a new item in an array in any position.
Expected Output :
Original array :
1 2 3 4 5
After inserting '$' the array is :
1 2 3 $ 4 5

6) 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

7)Write a PHP program to merge (by index) the following two arrays.
Sample arrays :
$array1 = array(array(77, 87), array(23, 45));
$array2 = array("w3resource", "com");
Expected Output :

```
Array
(
[0] => Array
(
[0] => w3resource
[1] => 77
[2] => 87
)
```

```
[1] => Array
(
[0] => com
[1] => 23
[2] => 45
)
)
```

8) Write a PHP function to change the following array's all values to upper or lower case.
Sample arrays :
$Color = array('A' => 'Blue', 'B' => 'Green', 'c' => 'Red');
Expected Output :
Values are in lower case.
Array ([A] => blue [B] => green [c] => red)
Values are in upper case.
Array ([A] => BLUE [B] => GREEN [c] => RED)

9) Write a PHP script to get the shortest/longest string length from an array.
Sample arrays : ("abcd","abc","de","hjjj","g","wer")
Expected Output : The shortest array length is 1. The longest array length is 4.

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

11)Write a PHP program to remove duplicate values from an array which contains only strings or only integers.

12) Write a PHP script to remove all white spaces in an array.

13) Write a PHP script to combine (using one array for keys and another for its values) the following two arrays.
('x', 'y', 'y'), (10, 20, 30)

14) How to check if an array is a subset of another in PHP?

Description:

You need to find whether an array is subset of another array.

Let us suppose that there are two arrays.
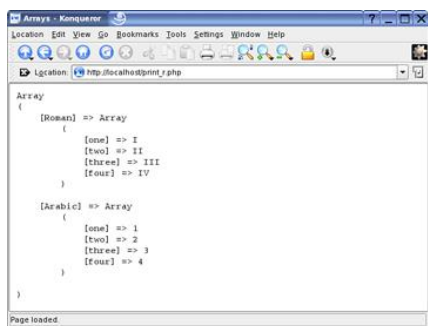
First array is large which have 6 values.

Second array is small which have 2 values

Find if second array is subset of first which means that all values of second array should exists in first array.

15) Write a PHP program to copy all elements from an array to another array.

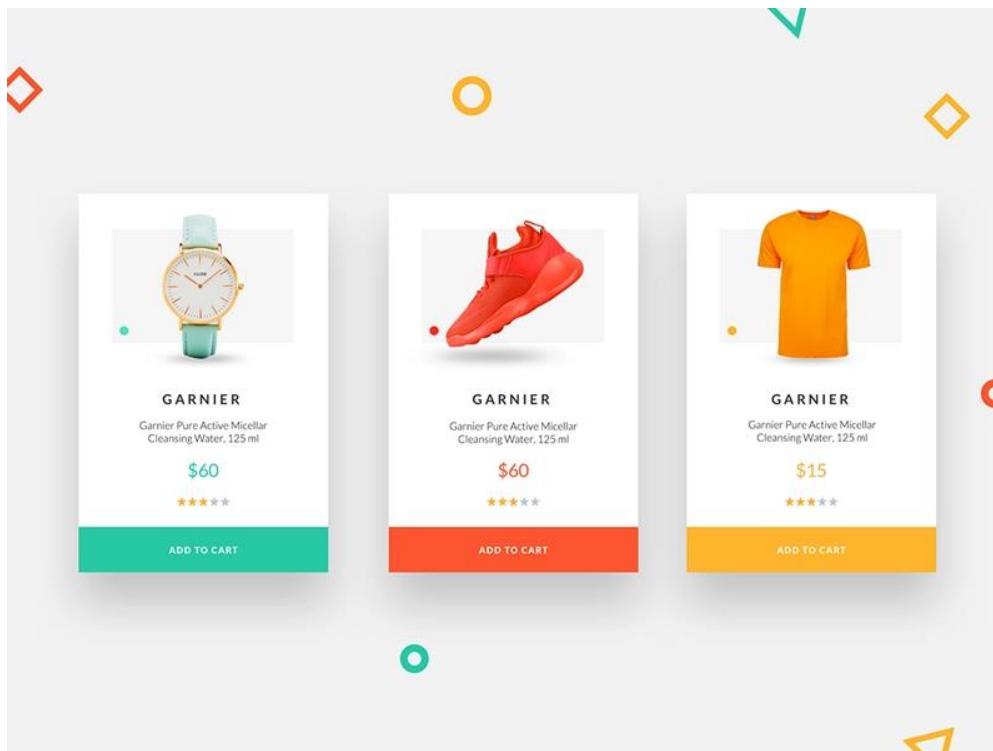16) Write a PHP program to merge two array to third array.

17)

18)

```
I am having the array of 3 seperate input fields.
But I want to get the arrays like

desciplines => Array
        (
         [0]  =>
           Array (
                ['name']          =>   Program Test
                ['descriptions']  =>   Program Desc
                ['fees']          => fees 1
        )
         [1] =>
         Array (
                ['name']          =>   Program Test 2
                ['descriptions']  =>   Program Desc 2
                ['fees']          => fees 2
        )
        )
```

19)

20) Signup and login using associative array