**PHP - Functions**

**1.** Write a function to calculate the factorial of a number (a non-negative integer). The function accepts the number as an argument.

**2.** Write a function to reverse a string.

**3.** Write a PHP function that checks whether a string is all lowercase.

**PHP - Arrays**

**1.** $color = array('white', 'green', 'red', 'blue', 'black');

Write a script that display the following string -

"The memory of that scene for me is like a frame of film forever frozen at that moment: the red carpet, the green lawn, the white house, the leaden sky. The new president and his first lady. - Richard M. Nixon"

The words 'red', 'green' and 'white' should come from $color variables .

**2.** $color = array('white', 'green', 'red'')

Write a PHP script that will display the colors in the following order :

Hint : using sort function

*Output :*

white, green, red,

* green
* red
* white

**3.** $cities= 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"=>"Tallinn", "Hungary"=>"Budapest") ;

Create a PHP script which displays the capital and country name from the above array $cities. 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

**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

*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 )

**6.** Write a PHP script which displays all the numbers between 200 and 250 that are divisible by 4.

Note : Do not use any PHP control statement.

*Expected Output* : 200,204,208,212,216,220,224,228,232,236,240,244,248

**7.** 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.

**8.** Write a PHP script to generate unique random numbers within a range.

*Sample Range* : (11, 20)

*Sample Output* : 17 16 13 20 14 19 18 15 11 12

**9.** Write a PHP script to get the largest key in the array.

**10.** Write a PHP function that returns the lowest integer in the array that is not 0.

**11.** Write a PHP function to floor decimal numbers with precision.

Note: Accept three parameters number, precision, and $separator

*Sample Data* :

1.155, 2, "."

100.25781, 4, "."

-2.9636, 3, "."

*Expected Output* :

1.15

100.2578

-2.964

**12.** 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"));