Assignment

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

Solution

```php
<?php
function factorial_of_a_number($n)
{
  if($n ==0)
   {
        return 1;
   }
  else
   {
        return $n * factorial_of_a_number($n-1);
   }
        }
print_r(factorial_of_a_number(4)."\n");
?>
```

Write a function to check whether a number is prime or not.

```php
<?php
function IsPrime($n)
{
 for($x=2; $x<$n; $x++)
  {
    if($n %$x ==0)
          {
                return 0;
          }
  }
  return 1;
  }
$a = IsPrime(3);
if ($a==0)
echo 'This is not a Prime Number.....'."\n";
else
echo 'This is a Prime Number..'."\n";
```

```php
?>
```

Write a function to check whether a number is prime or not.

```php
<?php
function IsPrime($n)
{
 for($x=2; $x<$n; $x++)
  {
    if($n %$x ==0)
          {
                 return 0;
                 }
   }
  return 1;
  }
$a = IsPrime(3);
if ($a==0)
echo 'This is not a Prime Number.....'."\n";
else
echo 'This is a Prime Number..'."\n";
?>
```

Write a function to reverse a string.

```php
<?php
function reverse_string($str1)
{
 $n = strlen($str1);
 if($n == 1)
  {
   return $str1;
  }
 else
  {
  $n--;
  return reverse_string(substr($str1,1, $n)) . substr($str1, 0, 1);
  }
}
print_r(reverse_string('1234')."\n");
```

?>

Write a function to sort an array.

```php
<?php
function array_sort($a)
{
 for($x=0;$x< count($a);++$x)
 {
   $min = $x;
  for($y=$x+1;$y< count($a);++$y)
  {
       if($a[$y] < $a[$min] )
       {
         $temp = $a[$min];
         $a[$min] = $a[$y];
         $a[$y] = $temp;
       }
       }
 }
 return $a;
 }
$a = array(51,14,1,21,'hj');
print_r(array_sort($a));
?>
```
Write a PHP function that checks whether a string is all lowercase.

```php
<?php
function is_str_lowercase($str1)
  {
   for ($sc = 0; $sc < strlen($str1); $sc++) {
           if (ord($str1[$sc]) >= ord('A') &&
       ord($str1[$sc]) <= ord('Z')) {
     return false;
       }
       }
    return true;
     }
var_dump(is_str_lowercase('abc def ghi'));
var_dump(is_str_lowercase('abc dEf ghi'));
?>
```

Write a PHP function that checks whether a passed string is a palindrome or not?

A palindrome is a word, phrase, or sequence that reads the same backward as forward, e.g., madam or nurses run.

```php
<?php
function check_palindrome($string)
{
  if ($string == strrev($string))
     return 1;
  else
        return 0;
}
echo check_palindrome('madam')."\n";
?>
```