**Assignment**  
**on**  
**Web Development with PHP & Laravel Framework**

**Module: 4 PHP Fundamental Step 01**

**Presented To**

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**1.** **Write a PHP function to sort an array of strings by their length, in ascending order. (Hint: You can use the usort() function to define a custom sorting function.)**

**Ans:** Now, let’s solve the problem using php code:

<?php

function sortStringsByLength(array $strings): array {

    usort($strings, function($a, $b) {

        return strlen($a) - strlen($b);

    });

    return $strings;

}

$words = array('apple', 'banana', 'pear', 'orange', 'strawberry');

$sorted\_words = sortStringsByLength($words);

print\_r($sorted\_words);

2. **Write a PHP function to concatenate two strings, but with the second string starting from the end of the first string.**

**Ans:** Now, let’s solve the problem using php code:

<?php

function concatFromEnd(string $str1, string $str2): string {

    $len1 = strlen($str1);

    $len2 = strlen($str2);

    return substr($str1, 0, $len1 - $len2) . $str2;

}

$str1 = 'Hello, world!';

$str2 = 'Alice';

$result = concatFromEnd($str1, $str2);

echo $result;

**3. Write a PHP function to remove the first and last element from an array and return the remaining elements as a new array.**

**Ans:** Now, let’s solve the problem using php code:

<?php

function removeFirstAndLast(array $arr): array {

    array\_shift($arr); // remove first element

    array\_pop($arr); // remove last element

    return $arr;

}

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

$remaining\_numbers = removeFirstAndLast($numbers);

print\_r($remaining\_numbers);

**4. Write a PHP function to check if a string contains only letters and whitespace.**

**Ans:** Now, let’s solve the problem using php code:

<?php

function containsOnlyLettersAndWhitespace(string $str): bool {

    return preg\_match('/^[a-zA-Z\s]+$/', $str) === 1;

}

$str1 = 'Hello, world!';

$str2 = 'Alice Brown';

$str3 = '1234';

echo containsOnlyLettersAndWhitespace($str1);

echo containsOnlyLettersAndWhitespace($str2);

echo containsOnlyLettersAndWhitespace($str3);

**5.** Write a PHP function to find the second largest number in an array of numbers.

**Ans:** Now, let’s solve the problem using php code:

<?php

function findSecondLargest(array $arr): ?float {

    if (count($arr) < 2) {

        return null;

    }

    $largest = $arr[0];

    $secondLargest = null;

    foreach ($arr as $num) {

        if ($num > $largest) {

            $secondLargest = $largest;

            $largest = $num;

        } elseif ($num != $largest && ($secondLargest === null || $num > $secondLargest)) {

            $secondLargest = $num;

        }

    }

    return $secondLargest;

}

$numbers = array(3, 2, 8, 5, 9, 7);

$second\_largest = findSecondLargest($numbers);

echo $second\_largest;