Task 1: String Manipulation

<?php

$text = "The quick brown fox jumps over the lazy dog.";

function myName($text): void {

$lowercase = strtolower($text);

$replaced = str\_replace("brown", "red", $lowercase);

echo $replaced;

}

myName($text);

Task 2: Array Manipulation

<?php

$numbers = [1,2,3,4,5,6,7,8,9,10];

function reEvenNum($n) {

return $n%2==!0;

}

$oddNum=array\_filter($numbers,'reEvenNum');

print\_r($oddNum);

?>

Task 3: Array Sorting

<?php

$grade = [85, 92, 78, 88, 95];

function sortGrade($grade){

rsort($grade);

print\_r($grade);

}

sortGrade($grade);

Task 4: Multidimensional Array

<?php

$studentGrades = [

"Student 1" => ['Math' => 85, 'English' => 92, 'Science' => 78],

"Student 2" => ['Math' => 88, 'English' => 95, 'Science' => 90],

"Student 3" => ['Math' => 75, 'English' => 80, 'Science' => 85],

];

function calculateAverage($avg)

{

foreach ($avg as $student => $grades) {

$total = array\_sum($grades);

$count = count($grades);

$average = $total / $count;

echo "Average number for $student: $average ";

if ($average >= 80) {

echo 'Grade : A+';

} else if ($average >= 70 && $average < 80) {

echo "Grade : A-";

} else if ($average >= 60 && $average < 70) {

echo "Grade : B";

} else if ($average >= 50 && $average < 60) {

echo "Grade : C";

} else if ($average >= 40 && $average < 50) {

echo "Grade : D";

} else {

echo 'fail';

}

echo "\n";

}

}

calculateAverage($studentGrades);

Task 5: Password Generator

<?php

function generatePassword($length) {

    $chars = "piazeringhijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789!@#$%^&\*()\_+";

    $password = "";

    for ($i = 0; $i < $length; $i++) {

        $randoms = rand(0, strlen($chars) - 1);

        $password .= $chars[$randoms];

    }

    return $password;

}

$password = generatePassword(12);

echo "Generated Password: $password\n";

?>