ASSIGNMENT 2

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
I MCA II Semester Web Technologies Lab (CS4357)
Assignment-2 Duration (2 Weeks)

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MCA, 2nd SEMESTER, 1st YEAR

1. Write a PHP program to print "Welcome to NITW".
code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>

        h2 {
                        color: blue;
                        font-family: Arial, Helvetica, sans-serif;
                        transition: color .3s ease-in-out;
                }

                h2:hover {
                        color: red;
                }

        body {
            background-color: #f2f2f2;
            padding: 5% 10%;
        }
    </style>
</head>
<body align="center" >
    <?php
    echo "<h2> Welcome to NITW </h2>";
    ?>
</body>
</html>
```
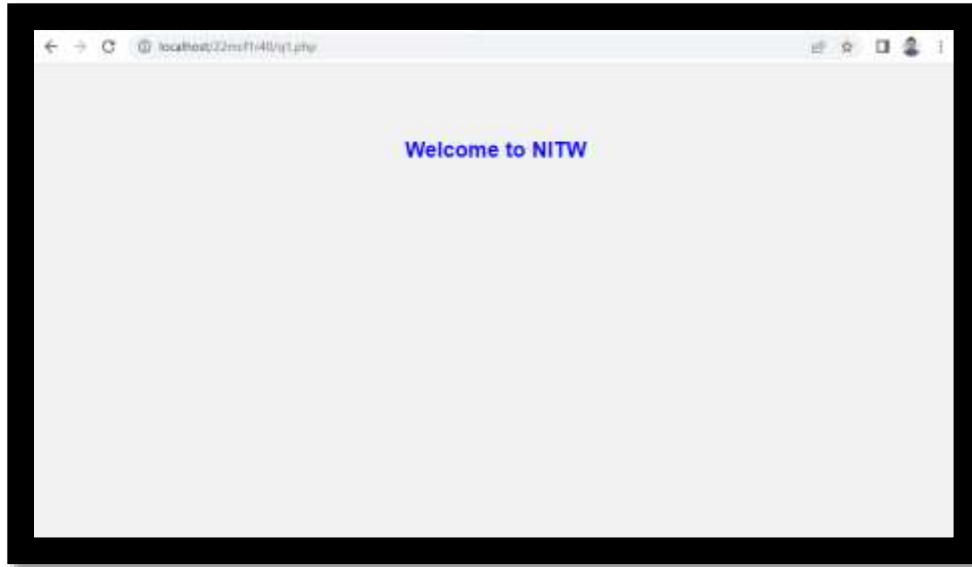
2. Write a PHP program to perform all string functions.
CODE:

```php
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body align="center" bgcolor="pink">
<?php

// Define a sample string to work with
$str = "Hello, World!";

// String length
$length = strlen($str);
echo "String length: " . $length . "<hr>";

// Substring
$substring = substr($str, 7, 5);
echo "Substring: " . $substring . "<hr>";

// Uppercase
$uppercase = strtoupper($str);
echo "Uppercase: " . $uppercase . "<hr>";

// Lowercase
$lowercase = strtolower($str);
echo "Lowercase: " . $lowercase . "<hr>";

// Replace
$replace = str_replace("World", "PHP", $str);
echo "Replace: " . $replace . "<hr>";
```

```php
// Concatenate
$concatenate = $str . " Welcome to PHP";
echo "Concatenate: " . $concatenate . "<hr>";

// Trim
$trim = "    Hello, World!        ";
$trimmed = trim($trim);
echo "Trimmed string: " . $trimmed . "<hr>";

// Explode
$exploded = explode(", ", $str);
echo "Exploded array: " . print_r($exploded, true) . "<hr>";

// Implode
$imploded = implode(", ", $exploded);
echo "Imploded string: " . $imploded . "<hr>";

// Position of substring
$position = strpos($str, "World");
echo "Position of substring: " . $position . "<hr>";

// Reverse string
$reversed = strrev($str);
echo "Reversed string: " . $reversed . "<hr>";

// Split string into array of characters
$chars = str_split($str);
echo "Split string: " . print_r($chars, true) . "<hr>";

// Capitalize first letter
$capitalized = ucfirst($str);
echo "Capitalized string: " . $capitalized . "<hr>";

// Make first letter lowercase
$lowercased = lcfirst($str);
echo "Lowercased string: " . $lowercased . "<hr>";

// Capitalize first letter of each word
$wordCapitalized = ucwords($str);
echo "Capitalized each word: " . $wordCapitalized . "<hr>";

// Pad string with characters to a certain length
$padded = str_pad($str, 20, "*", STR_PAD_BOTH);
echo "Padded string: " . $padded . "<hr>";

// Repeat string
$repeated = str_repeat($str, 3);
echo "Repeated string: " . $repeated . "<hr>";


// Convert newlines to HTML line breaks
$newline = "Hello,\nWorld!";
$linebreak = nl2br($newline);
echo "Line break conversion: " . $linebreak . "<hr>";

// Remove HTML and PHP tags
$html = "<p>Hello, <strong>World!</strong></p>";
$stripped = strip_tags($html);
```

```php
echo "Stripped string: " . $stripped . "<hr>";

// Convert special characters to HTML entities
$specialChars = "This is a 'test' string";
$convertedChars = htmlspecialchars($specialChars);
echo "Converted special characters: " . $convertedChars . "<hr>";

// Convert all characters to HTML entities
$allChars = "This is a <test> string";
$convertedAll = htmlentities($allChars);
echo "Converted all characters: " . $convertedAll . "<hr>";
?>

</body>
</html>
```
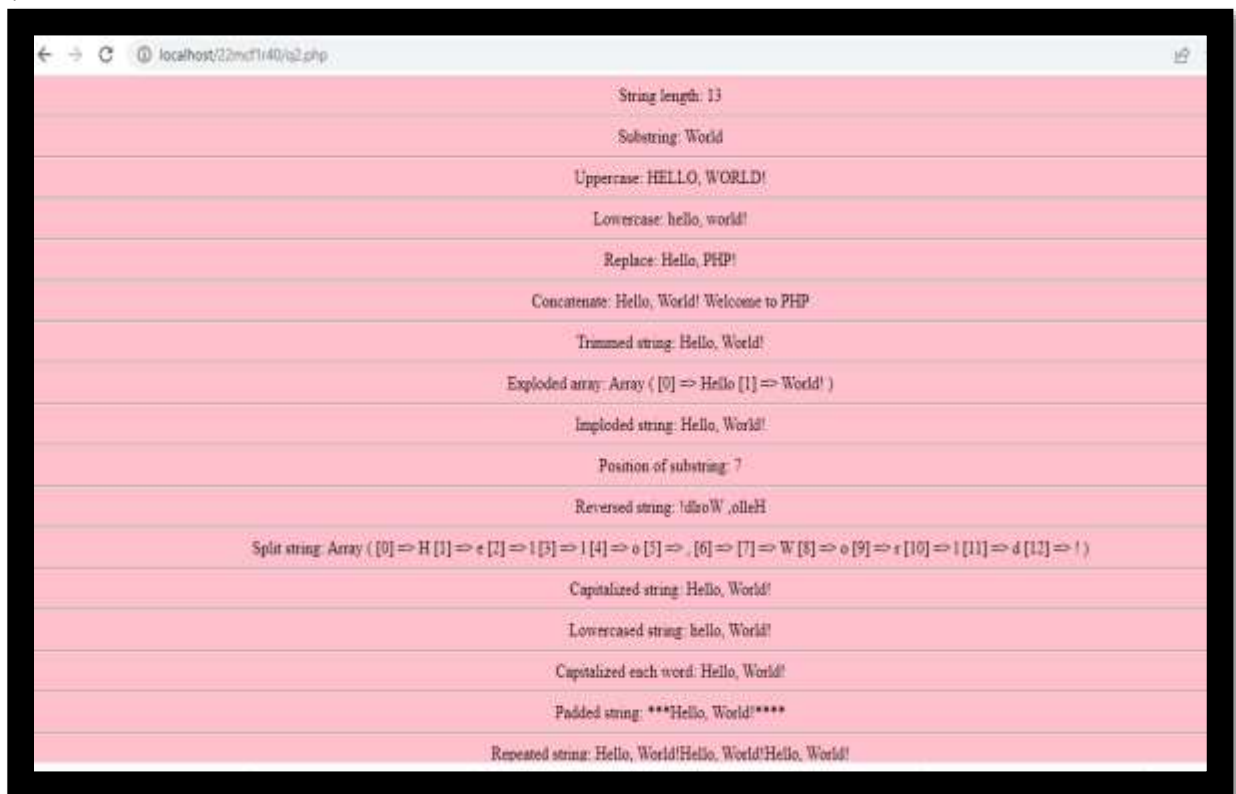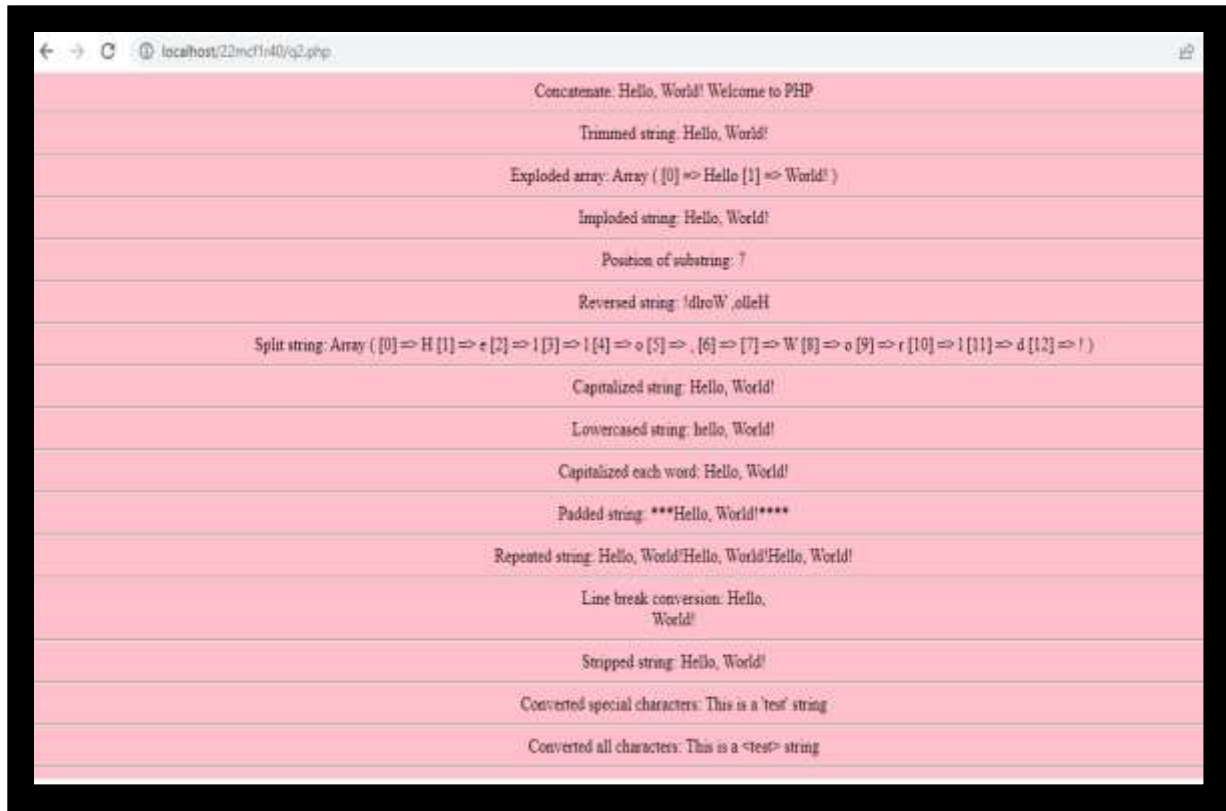
Concatenate: Hello, World! Welcome to PHP

Trimmed string: Hello, World!

Exploded array: Array ([0] => Hello [1] => World!)

Imploded string: Hello, World!

Position of substring: 7

Reversed string: !dlroW ,olleH

Split string: Array ([0] => H [1] => e [2] => l [3] => l [4] => o [5] => , [6] => [7] => W [8] => o [9] => r [10] => l [11] => d [12] => !)

Capitalized string: Hello, World!

Lowercased string: hello, World!

Capitalized each word: Hello, World!

Padded string: ***Hello, World!****

Repeated string: Hello, World!Hello, World!Hello, World!

Line break conversion: Hello,
World!

Stripped string: Hello, World!

Converted special characters: This is a 'test' string

Converted all characters: This is a <test> string

---

3. Write a program to show day of the week (for example: Monday) based on numbers using switch/case statements.
code:

```
<!DOCTYPE html>
<html>
<head>
        <title>Day of the Week</title>
        <style>
                body{
                        padding: 15% 10%;
                }


                input[type=number] {
                        padding: 0.9% 2.5%;
                        border-radius: 5px;
                        border: none;
                        background-color: #fff;
                        box-shadow: 0 0 10px rgba(0,0,0,.1);
                }
                input[type=number]:focus {
                        outline: none;
                        box-shadow: 0 0 20px rgba(0,0,0,.3);
                }
```

```
                button[type=submit] {
                        padding: 10px 20px;
                        border-radius: 5px;
                        border: none;
                        background-color: #3e8e20;
                        color: #fff;
                        font-size: 16px;
                        cursor: pointer;
                        transition: background-color .3s ease-in-out;
                }
                button[type=submit]:hover {
                        background-color: blue;
                }

                </style>
</head>
<body align="center" bgcolor="orange">
        <form method="POST">
                <label for="day"><h1>Enter a number (1-7):</h1></label>
                <input type="number" name="day" id="day" required min="1" max="7" placeholder="enter No."> <br><br>
                <button type="submit">Submit</button><br>
        </form>

        <?php
                if (isset($_POST['day'])) {
                        $day = $_POST['day'];

                        switch ($day) {
                                case 1:
                                        echo "<h3>Monday</h3>";
                                        break;
                                case 2:
                                        echo "<h3>Tuesday</h3>";
                                        break;
                                case 3:
                                        echo "<h3>Wednesday</h3>";
                                        break;
                                case 4:
                                        echo "<h3>Thursday</h3>";
                                        break;
                                case 5:
                                        echo "<h3>Friday</h3>";
                                        break;
                                case 6:
                                        echo "<h3>Saturday</h3>";
                                        break;
                                case 7:
                                        echo "<h3>Sunday</h3>";
                                        break;
                                default:
                                        echo "<h2>Invalid input. Please enter a number between 1 and 7.</h2>";
                                        break;
                        }
                }
        ?>
</body>
</html>
```

Code:

```
<!DOCTYPE html>
<html>
<head>
        <title>Temperature Analysis</title>
        <style>
                <head>
        <style>
                body {
                        background-color: #f2f2f2;
                        font-family: Arial, sans-serif;
                        color: #333;
                }
                h1 {
                        font-size: 24px;
                        margin-bottom: 20px;
                }
                table {
                        border-collapse: collapse;
                        margin: 20px 0;
                        width: 100%;
                        max-width: 600px;
                        background-color: #fff;
                        box-shadow: 0 0 10px rgba(0,0,0,.1);
                }
                table td, table th {
                        border: 1px solid #ddd;
```

```
                                    padding: 10px;
                                    text-align: center;
                    }
                    table th {
                                    background-color: #3380FF;
                                    font-weight: bold;
                    }
          </style>
</head>
          </style>
</head>
<body>
          <?php
          // Recorded temperatures
          $temperatures = array(78, 60, 62, 68, 71, 68, 73, 85, 66, 64, 76, 63, 75, 76, 73, 68, 62, 73, 72, 65, 74, 62, 62, 65, 64, 68, 73, 75,
79, 73);

          // Calculate average temperature
          $average_temperature = round(array_sum($temperatures) / count($temperatures), 1);

          // Sort temperatures in ascending order
          sort($temperatures);

          // Get seven lowest temperatures
          $seven_lowest_temperatures = array_slice($temperatures, 0, 7);

          // Get seven highest temperatures
          $seven_highest_temperatures = array_slice($temperatures, -7);

          // Output results
          echo "<h1>Temperature Analysis</h1>";
          echo "<p>Average Temperature is: $average_temperature</p>";
          echo "<table>";
          echo "<tr><th>Lowest Temperatures</th></tr>";
          foreach ($seven_lowest_temperatures as $temperature) {
                    echo "<tr><td>$temperature</td></tr>";
          }
          echo "</table>";
          echo "<table>";
          echo "<tr><th>Highest Temperatures</th></tr>";
          foreach ($seven_highest_temperatures as $temperature) {
                    echo "<tr><td>$temperature</td></tr>";
          }
          echo "</table>";
          ?>
</body>
</html>
```

Temperature Analysis

Average Temperature is: 69.8

Lowest Temperatures
60
62
62
62
62
63
64

Highest Temperatures
75
75
76
76
78

5. Write a program to calculate and print the factorial of a number using a for loop. The factorial of a number is the product of all integers up to and including that number, so the factorial of 4 is 4*3*2*1= 24.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body align = " center " bgcolor="gray">
<?php
// Function to calculate the factorial of a number
function factorial($n) {
    $fact = 1;
    for($i = 1; $i <= $n; $i++) {
        $fact *= $i;
    }
    return $fact;
}
```

```
// Test the function
$num = 4;
$fact = factorial($num);
echo "<hr><h3>The factorial of $num is:</h3> $fact <hr>";
?>


</body>
</html>
```


6. Write a PHP script that creates the following table using for loops. Add cellpadding="3px" and cellspacing="0px" to the table tag.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
    .multiplication-table {
   border-collapse: collapse;
   margin: auto;
}
.multiplication-cell {
   border: 1px solid black;
   padding: 10px;
   text-align: center;
}
</style>
</head>
<body align="center" bgcolor="greenish">

<?php
echo "<hr><h1>Using PHP</h1>";
echo "<table class='multiplication-table'>\n";
for ($i = 1; $i <= 6; $i++) {
    echo "<tr>\n";
    for ($j = 1; $j <= 5; $j++) {
        echo "<td class='multiplication-cell'>" . $i . " &times; " . $j . " = " . ($i * $j) . "</td>\n";
    }
    echo "</tr>\n";
}
echo "</table> <hr>";
?>


<h3>Normal, using table</h3>
<table cellpadding='5px' cellspacing='0px' border=1>
<tr>
<td>1 * 1 = 1</td>
<td>1 * 2 = 2</td>
<td>1 * 3 = 3</td>
```

```
<td>1 * 4 = 4</td>
<td>1 * 5 = 5</td>
</tr>
<tr>
<td>2 * 1 = 2</td>
<td>2 * 2 = 4</td>
<td>2 * 3 = 6</td>
<td>2 * 4 = 8</td>
<td>2 * 5 = 10</td>
</tr>
<tr>
<td>3 * 1 = 3</td>
<td>3 * 2 = 6</td>
<td>3 * 3 = 9</td>
<td>3 * 4 = 12</td>
<td>3 * 5 = 15</td>
</tr>
<tr>
<td>4 * 1 = 4</td>
<td>4 * 2 = 8</td>
<td>4 * 3 = 12</td>
<td>4 * 4 = 16</td>
<td>4 * 5 = 20</td>
</tr>
<tr>
<td>5 * 1 = 5</td>
<td>5 * 2 = 10</td>
<td>5 * 3 = 15</td>
<td>5 * 4 = 20</td>
<td>5 * 5 = 25</td>
</tr>
<tr>
<td>6 * 1 = 6</td>
<td>6 * 2 = 12</td>
<td>6 * 3 = 18</td>
<td>6 * 4 = 24</td>
<td>6 * 5 = 30</td>
</tr>
</table>
</body>
</html>
```
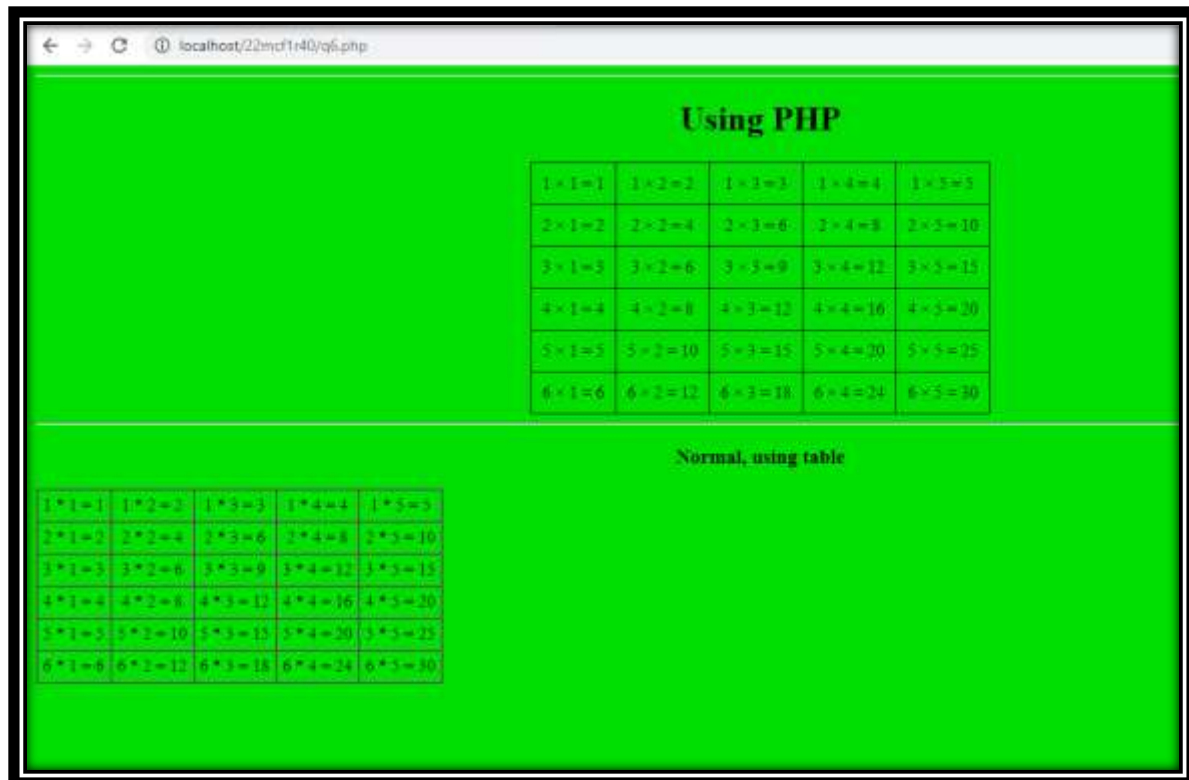
7. Write a PHP program which iterates the integers from 1 to 50. For multiples of   three print "Fizz" instead of the number and for the multiples of five print "Buzz".For numbers which are multiples of both three and five print "FizzBuzz".
Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body bgcolor="gray" align="center">
<?php
for ($i = 1; $i <= 50; $i++) {
    if ($i % 3 == 0 && $i % 5 == 0) {
        echo "<h1> FizzBuzz </h1> <hr>";
    } elseif ($i % 3 == 0) {
        echo "<h3>Fizz</h3><hr>";
    } elseif ($i % 5 == 0) {
        echo "<h3>Buzz</h3><hr>";
    } else {
        echo $i . "<hr>";
    }
}
?>
</body>
</html>
```

Fizz	
4	
Buzz	
Fizz	
7	
8	
Fizz	
Buzz	
11	
Fizz	
13	
14	

FizzBuzz

8. Write a PHP script that removes the last word from a string.
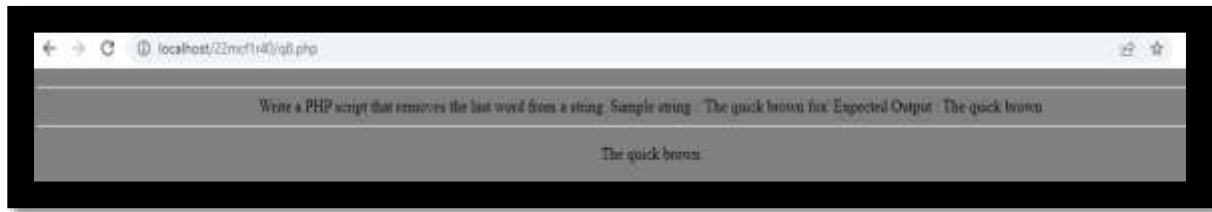Sample string : 'The quick brown fox'
Expected Output : The quick brown
Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
     <meta charset="UTF-8">
     <meta http-equiv="X-UA-Compatible" content="IE=edge">
     <meta name="viewport" content="width=device-width, initial-scale=1.0">
     <title>Document</title>
</head>
<body align="center" bgcolor="gray">
<p><hr>Write a PHP script that removes the last word from a string.
Sample string : 'The quick brown fox'
Expected Output : The quick brown<hr></p>
<?php
// Define the string
$string = 'The quick brown fox';
// Explode the string into an array of words
$words = explode(' ', $string);
// Remove the last word from the array
array_pop($words);
// Implode the remaining words back into a string
$newString = implode(' ', $words);
// Output the new string
echo $newString;
?>
```

```
</body>
</html>
```

Code:
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body align=" center" bgcolor="gray">
<p><hr>
Write a PHP script that removes the whitespaces from a string.
Sample string : 'The quick " " brown fox'
Expected Output : Thequick""brownfox <hr></p>
<?php
$string = 'The quick " " brown fox';
$no_spaces_string = str_replace(' ', '', $string);
echo $no_spaces_string; // output: Thequick""brownfox
?>

</body>
</html>
```


10. Write a PHP script to remove all characters from a string except a-z A-Z 0-9 or " ".
Sample string: abcde$ddfd @abcd)der]
Expected Result: abcdeddfd abcd der
Code:

```
<!DOCTYPE html>
<html lang="en">
```

```html
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body align="center" bgcolor="gray">

<p><hr>Write a PHP script to remove all characters from a string except a-z A-Z 0-9 or " ".
Sample string: abcde$ddfd @abcd )der]
Expected Result: abcdeddfd abcd der<hr></p>

<?php
$string = 'abcde$ddfd @abcd )der]';
$clean_string = preg_replace('/[^a-zA-Z0-9 ]/', '', $string);
echo $clean_string; // Output: abcdeddfd abcd der
?>

</body>
</html>
```


11. Write a PHP script to print the current date in the following format. To get current date's information you can use date() function.
Code:
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body align="center">
<?php
echo date("Y/m/d") . "\n<br>";
echo date("y.m.d") . "\n<br>";
echo date("d-m-y")."\n<br>";
?>
</body>
</html>
```
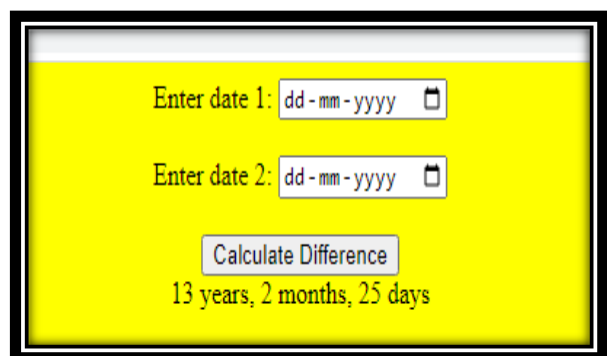
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body align="center" bgcolor="yellow">

<form method="POST">
    <label for="date1">Enter date 1:</label>
    <input type="date" id="date1" name="date1"><br><br>
    <label for="date2">Enter date 2:</label>
    <input type="date" id="date2" name="date2"><br><br>
    <button type="submit">Calculate Difference</button>
</form>
<?php
if(isset($_POST['date1']) && isset($_POST['date2'])){
    $date1 = new DateTime($_POST['date1']);
    $date2 = new DateTime($_POST['date2']);
    $interval = $date1->diff($date2);
    echo $interval->format('%y years, %m months, %d days');
}
?>
</body>
</html>
```

```html
<!DOCTYPE html>
```

```html
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
    body{
        padding: 10% 15%;
    }
    </style>
</head>
<body align ="center" bgcolor="yellow">
<?php
/*
$date = '2012-09-12';
$newDate = date('d-m-Y', strtotime($date));
echo $newDate;
*/
?>
<form method="POST">
    <label for="date">Enter date (yyyy-mm-dd):</label>
    <input type="text" id="date" name="date"><br><br>
    <button type="submit">Convert Date</button>
</form><br><br>

<?php
if(isset($_POST['date'])){
    $date = $_POST['date'];
    $newDate = date('d-m-Y', strtotime($date));
    echo $newDate;
}
?>
</body>
</html>
```

14. Write a PHP script to
a) Transform a string all uppercase letters.
b) Transform a string all lowercase letters.
c) Make a string's first character uppercase.
d) Make a string's first character of all the words uppercase.
Code:

```php
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
<?php
$string = "This is a sample string.";

// a) Transform a string all uppercase letters.
$uppercase = strtoupper($string);
echo "Uppercase string: " . $uppercase . "<br>";

// b) Transform a string all lowercase letters.
$lowercase = strtolower($string);
echo "Lowercase string: " . $lowercase . "<br>";

// c) Make a string's first character uppercase.
$ucfirst = ucfirst($string);
echo "String with first character uppercase: " . $ucfirst . "<br>";

// d) Make a string's first character of all the words uppercase.
$ucwords = ucwords($string);
echo "String with first character of all words uppercase: " . $ucwords . "<br>";
?>

</body>
</html>
```
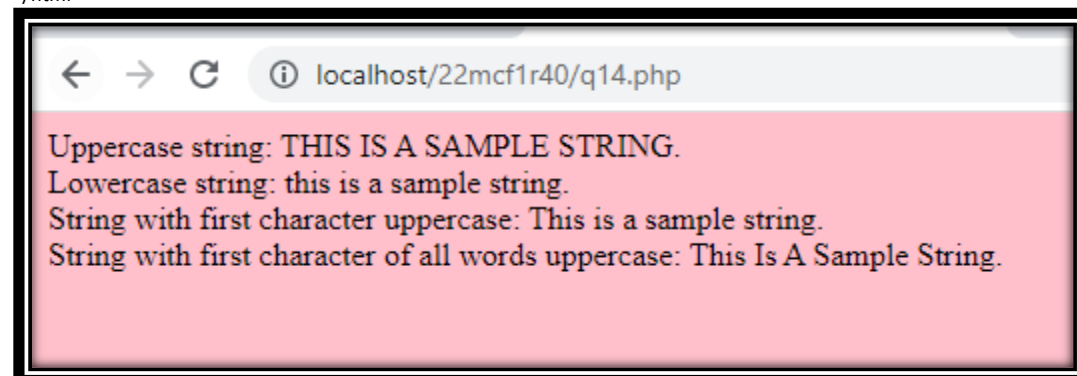

15. Write a PHP script to sort the following associative array
array("Sophia"=>"31","Jacob"=>"41","William"=>"39","Ramesh"=>"40") in
a) ascending order sort by value
b) ascending order sort by Key
c) descending order sorting by Value
d) descending order sorting by Key

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
<?php
$ages = array("Sophia"=>"31", "Jacob"=>"41", "William"=>"39", "Ramesh"=>"40");

// a) Ascending order sort by value.
asort($ages);
echo "Ascending order sort by value: <br>";
foreach($ages as $key => $value){
    echo $key . " is " . $value . " years old. <br>";
}
echo "<br>";

// b) Ascending order sort by key.
ksort($ages);
echo "Ascending order sort by key: <br>";
foreach($ages as $key => $value){
    echo $key . " is " . $value . " years old. <br>";
}
echo "<br>";

// c) Descending order sorting by value.
arsort($ages);
echo "Descending order sorting by value: <br>";
foreach($ages as $key => $value){
    echo $key . " is " . $value . " years old. <br>";
}
echo "<br>";

// d) Descending order sorting by key.
krsort($ages);
echo "Descending order sorting by key: <br>";
foreach($ages as $key => $value){
    echo $key . " is " . $value . " years old. <br>";
}
?>

</body>
</html>
```
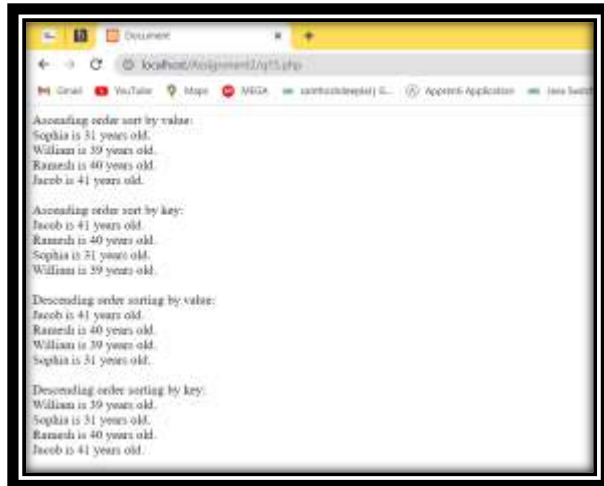
Ascending order sort by value:
Sophia is 31 years old.
William is 39 years old.
Ramesh is 40 years old.
Jacob is 41 years old.

Ascending order sort by key:
Jacob is 41 years old.
Ramesh is 40 years old.
Sophia is 31 years old.
William is 39 years old.

Descending order sorting by value:
Jacob is 41 years old.
Ramesh is 40 years old.
William is 39 years old.
Sophia is 31 years old.

Descending order sorting by key:
William is 39 years old.
Sophia is 31 years old.
Ramesh is 40 years old.
Jacob is 41 years old.

16. Write a PHP script to find the maximum and minimum marks from the following set of arrays.
Sample arrays :
$marks1 = array(360,310,310,330,313,375,456,111,256);
$marks2 = array(350,340,356,330,321);
$marks3 = array(630,340,570,635,434,255,298);
Expected Output :
Maximum marks : 635
Minimum marks : 111
Code:

```php
<?php
$marks1 = array(360,310,310,330,313,375,456,111,256);
$marks2 = array(350,340,356,330,321);
$marks3 = array(630,340,570,635,434,255,298);

// Finding maximum marks
$max_marks = max(max($marks1), max($marks2), max($marks3));
echo "Maximum marks: " . $max_marks . "<br>";

// Finding minimum marks
$min_marks = min(min($marks1), min($marks2), min($marks3));
echo "Minimum marks: " . $min_marks . "<br>";
?>
```


Maximum marks: 635
Minimum marks: 111

17.Write a PHP function that checks whether a passed string is a palindrome or not?
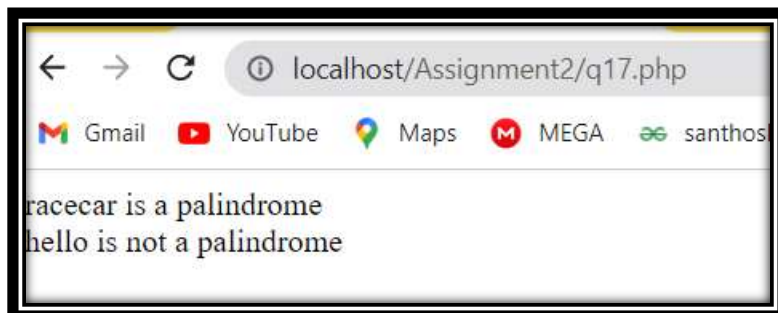**Code:**

```php
<?php
function isPalindrome($string) {
    $string = strtolower(preg_replace('/[^A-Za-z0-9]/', '', $string)); // Remove non-alphanumeric characters and convert to lowercase
    $reverseString = strrev($string); // Reverse the string
    return $string === $reverseString; // Check if the string is equal to its reverse
}

$string1 = "racecar";
$string2 = "hello";

if (isPalindrome($string1)) {
    echo "$string1 is a palindrome<br>";
} else {
    echo "$string1 is not a palindrome<br>";
}

if (isPalindrome($string2)) {
    echo "$string2 is a palindrome<br>";
} else {
    echo "$string2 is not a palindrome<br>";
}

?>
```
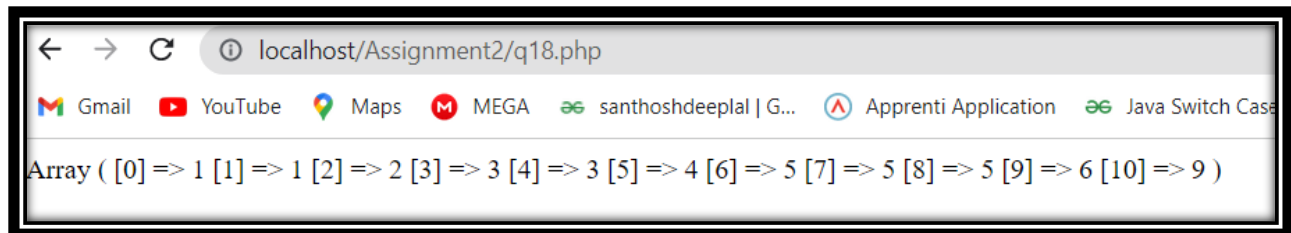

18. Write a function to sort an array.
Code:

```php
<?php
function sortArray($arr) {
    sort($arr);
    return $arr;
}
$myArray = array(3, 1, 4, 1, 5, 9, 2, 6, 5, 3, 5);

$sortedArray = sortArray($myArray);

print_r($sortedArray);

?>
```

19. Create a simple HTML form and accept the user name and display the name through PHP echo statement.
Code:

```
<!DOCTYPE html>
<html>
<head>
        <title>Simple HTML Form</title>
        <style>
        body{
                background-color: skyblue;
                padding: 5% 10%;

        }

        label{
                font-size: 2em;
        }
        input{
                border-radius: 10%;
                font-size: 2em;
        }
        button{
                border-radius: 10%;
                font-size: 2em;
                align="center";
                background-color: blue;
        }
        h1{
                border-radius: 10%;
                font-size: 4em;
        }
    </style>
</head>
<body>
        <form method="POST" action="">
                <label for="name">Name:</label>
                <input type="text" name="name" id="name"><br>
                <button type="submit">Submit</button>
        </form>

        <?php
        if(isset($_POST['name'])) {
                $name = $_POST['name'];
                echo "<h1>Hello, $name!</h1>";
        }
```
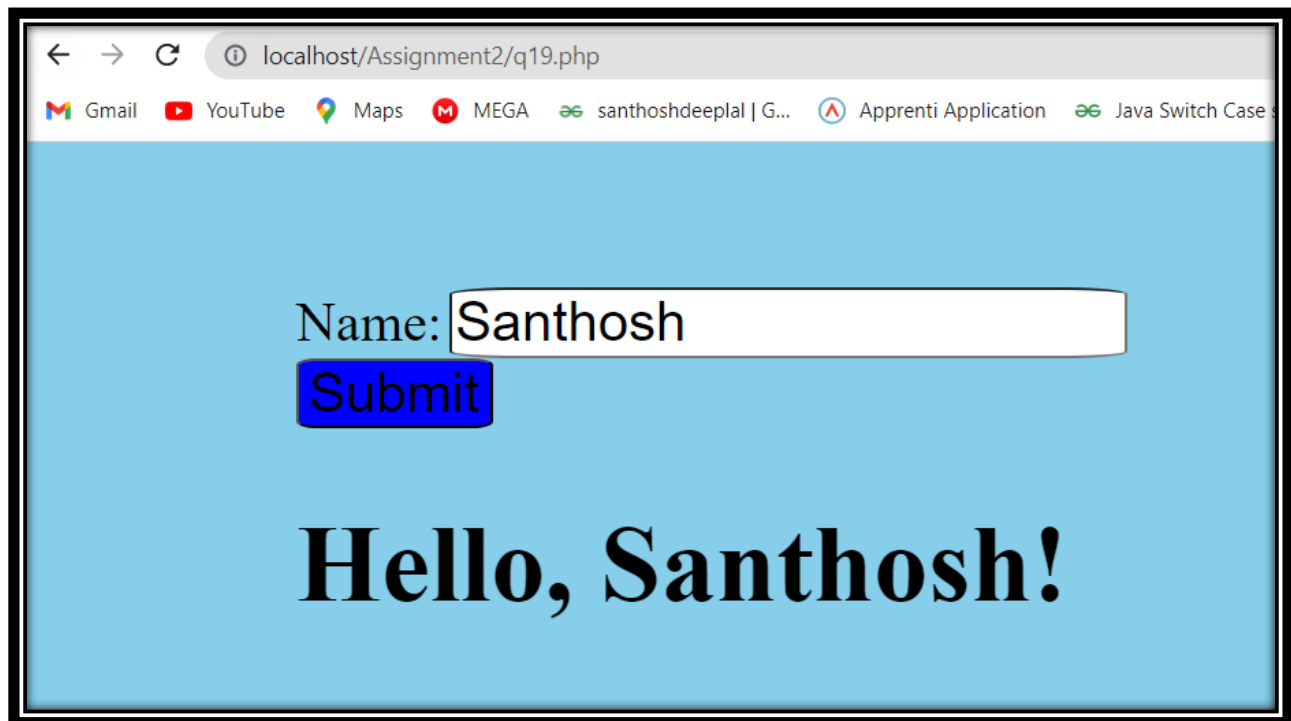
```
              ?>
</body>
</html>
```

q20.php:
```
<!DOCTYPE html>
<html>
<head>
        <title>Registration Form</title>
</head>
<body bgcolor="#33FFF6">
        <h2>Registration Form</h2>
        <form method="POST" action="process.php">
                <label for="name">Name:</label><br>
                <input type="text" id="name" name="name"><br>
                <label for="email">Email:</label><br>
                <input type="email" id="email" name="email"><br>
                <label for="password">Password:</label><br>
                <input type="password" id="password" name="password"><br>
                <label for="confirm_password">Confirm Password:</label><br>
                <input type="password" id="confirm_password" name="confirm_password"><br>
                <label for="dob">Date of Birth:</label><br>
                <input type="date" id="dob" name="dob"><br>
                <label for="gender">Gender:</label><br>
```

```
                        <input type="radio" id="male" name="gender" value="male">
                        <label for="male">Male</label><br>
                        <input type="radio" id="female" name="gender" value="female">
                        <label for="female">Female</label><br>
                        <input type="submit" value="Submit">
            </form>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<head>
            <title>Registration Form - Results</title>
</head>
<body bgcolor="#33FFF6">
            <h2>Registration Form - Results</h2>
            <?php
                        if ($_SERVER['REQUEST_METHOD'] == 'POST') {
                                    $name = $_POST['name'];
                                    $email = $_POST['email'];
                                    $password = $_POST['password'];
                                    $confirm_password = $_POST['confirm_password'];
                                    $dob = $_POST['dob'];
                                    $gender = $_POST['gender'];

                                    echo "<p>Name: $name</p>";
                                    echo "<p>Email: $email</p>";
                                    echo "<p>Date of Birth: $dob</p>";
                                    echo "<p>Gender: $gender</p>";
                        }
            ?>
</body>
</html>
```

Code:

Q21.php:
```php
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <style>
        body{

            padding: 15% 30%;
        }
    </style>
</head>
<body bgcolor="#33FFF6">
<?php
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    // Get the submitted username and password
    $username = $_POST['username'];
    $password = $_POST['password'];

    // Check if the username and password are correct
    if ($username === 'admin' && $password === 'godsgift') {
        // Redirect the user to the welcome page
        header('Location: welcome.php');
        exit;
    } else {
        // Display an error message
        echo 'Invalid username or password. Please try again.';
    }
}
?>

<!-- Display the login form -->
<form method="POST">
    <label>Username:</label>
    <input type="text" name="username">
    <br>
    <label>Password:</label>
    <input type="password" name="password">
    <br>
    <input type="submit" value="Login">
</form>

</body>
</html>
```

Welcome.php:
```php
<!DOCTYPE html>
<html>
<head>
```

```html
    <title>Welcome</title>
    <style>
        p{
            font-size: 2em;
        }
    </style>
</head>
<body>
    <h1>Welcome!</h1>
    <p>You have successfully logged in as admin.</p>
</body>
</html>
```

22. Write a Program using CSS and PHP to calculate the amount earned by the employee.
Code:

Program3.php:
```php
<!DOCTYPE html>
<html>
<head>
        <title>Employee Salary Calculator</title>
        <!-- <link rel="stylesheet" type="text/css" href="style.css"> -->
    <style>

body {
    background-color: #f8f8f8;
}
#pay{
        max-width: 500px;
    margin: 10px auto;
    padding: 20px;
    border: 2px solid maroon;
```

```css
}
form {
    max-width: 500px;
    margin: 50px auto;
    padding: 20px;
    border: 2px solid maroon;
}

/* fieldset {
    border: none;
} */

legend {
    font-size: 1.2em;
    font-weight: bold;
}

label {
    display: block;
    margin-bottom: 10px;
}

input {
    width: 100%;
    padding: 10px;
    border-radius: 5px;
    border: 1px solid #ccc;
    box-sizing: border-box;
}

button[type="submit"] {
    display: block;
    margin-top: 20px;
    padding: 10px;
    background-color: maroon;
    color: #fff;
    border: none;
    border-radius: 5px;
    cursor: pointer;
}

        </style>

</head>
<body>

<form id="pay" action="calculate.php" method="POST">
                <fieldset>
                        <legend>Pay period ending</legend>
                        <label for="day">Day:</label>
                        <input type="number" name="day" id="day" required>
                        <label for="month">Month:</label>
                        <input type="number" name="month" id="month" required>
                        <label for="year">Year:</label>
                        <input type="number" name="year" id="year" required>

                </fieldset>
        </form>
```

```html
                    <form action="calculate.php" method="POST">
        <fieldset>
        <legend>Hours worked and pay rate</legend>
                        <label for="hours">Hours worked:</label>
                        <input type="number" name="hours" id="hours" required>
                        <label for="rate">Hourly rate:</label>
                        <input type="number" name="rate" id="rate" required>
                        <button type="submit">Calculate</button>
          </fielset>
                </form>
</body>
</html>
```

```php
<!DOCTYPE html>
<html>
<head>
        <title>Employee Salary Calculator - Results</title>
        <!-- <link rel="stylesheet" type="text/css" href="style.css"> -->
        <style>
                table {
   border-collapse: collapse;
   width: 100%;
   margin-top: 20px;
}

th, td {
   text-align: center;
   padding: 8px;
}

th {
   background-color: #4CAF50;
   color: white;
}

tr:nth-child(even) {
   background-color: #f2f2f2;
}

tr:hover {
   background-color: #ddd;
}

                </style>
</head>
<body>
        <div class="container">
                <h1>Employee Salary Calculator - Results</h1>
                <?php
                        $hours = $_POST["hours"];
                        $rate = $_POST["rate"];
                        $salary = $hours * $rate;
                        echo "<table>";
                        echo "<tr><th>Hours Worked</th><th>Pay Rate</th><th>Amount Earned</th></tr>";
                        echo "<tr><td>" . $hours . "</td><td>$" . $rate . "</td><td>$" . $salary . "</td></tr>";
```

```
                          echo "</table>";
                ?>
        </div>
</body>
</html>
```

23. Using html and php, create a below page using necessary tags and attributes, retrieve them and display them.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Information</title>
    <style>
    body{
        align-items: center;
        padding-left: 30%;
    }

    #des{
        margin: auto;
```

```css
        align-items: center;
        text-align: center;
}

#but{
        align-items: center;
        text-align: center;
}

#n{
        width: 310px;
}

table{
        margin-top: 40px;
        border: solid white 2px;
        padding: 10px;
        border-radius: 8px;
        background-color: rgb(115, 115, 1);
        box-shadow: 2px 1px 20px black;

}

.container th{
        background-color: gray;
        font-size: 25px;
        margin-bottom: 8px;
}

.container td,th{
        padding: 5px;
}

.btn{
        height: 35px;
        width: 250px;
        border: gray 4px;
        border-radius: 5px;
        font-size: 15px;
        font-weight: bold;
        color: red;
}

.btn:hover{
        background-color: black;
        color: white:
}

.container2{
        margin-top: 20px;
        padding: 15px;
        background-color: gray;
        color: white;
        width: 59%;
        border-radius: 8px;
        box-shadow: 2px 1px 20px black;
}
```

```
        p{
                font-size: 25px;
                color: black;
                display: inline-block;
        }

        </style>
</head>
<body bgcolor="greenish">
        <div class="container">
                <form action="q23.php" method="post">

                <table>
                        <tr>
                                <th>
                                        Name
                                </th>
                                <th>
                                        Value
                                </th>
                        </tr>
                        <tr>
                                <td>
                                        Name
                                </td>
                                <td>
                                        <input type="text" id="n" name="nam" placeholder="Please Enter Your Full Name">
                                </td>
                        </tr>
                        <tr>
                                <td>
                                        Sex
                                </td>
                                <td>
                                        <label for="r1">
                                                <input type="radio" name="sex" id="r1" value="Male">Male
                                        </label><br>
                                        <label for="r2">
                                                <input type="radio" name="sex" id="r2" value="Female">Female
                                        </label>
                                </td>
                        </tr>
                        <tr>
                                <td>
                                        Eye Color
                                </td>
                                <td>
                                        <select name="EyeColor" id="">
                                                <option value="Select">Select Option</option>
                                                <option value="Red">Red</option>
                                                <option value="Green">Green</option>
                                                <option value="Black">Black</option>
                                                <option value="Brown">Brown</option>
                                                <option value="Other">Other</option>
                                        </select>
                                </td>
                        </tr>
                        <tr>
```

```html
                <td>
                    Check all that Apply
                </td>
                <td>
                    <label for="c1">
                        <input type="checkbox" name="o[]" id="c1" value="Over 6 feet Tall"> Over 6 feet tall
                    </label><br>
                    <label for="c2">
                        <input type="checkbox" name="o[]" id="c2" value="Over 200 Pounds"> Over 200 Pounds
                    </label>
                </td>
            </tr>
            <tr>
                <td id="des" colspan="2">
                    Describe your athletic ability:
                    <br>
                    <textarea name="other" id="" cols="60" rows="10" placeholder="Enter your athletic abilities in
sort...."></textarea>
                </td>
            </tr>
            <tr>
                <td id="but" colspan="2"><button class="btn">Enter my Information</button></td>
            </tr>
        </table>
        </form>
    </div>
    <div class="container2">
        <h1>Retrieved Information</h1>
        <br>
        <?php
        $name = $_POST['nam'];
        $sex = $_POST['sex'];
        $eyeColor = $_POST['EyeColor'];
        $other =$_POST['other'];


        echo "Your Name : <p>".$name . "</p><br>Your Gender : <p>" . $sex . "</p><br> Your Eye Color : <p>" . $eyeColor . "</p><br>";
        echo "Your Personality : <br>";
        if(!empty($_POST['o'])){
            foreach($_POST['o'] as $selected){
                echo "<p>".$selected."</p></br>";
            }
        }
        echo "Your Athletic Ability : <p>" . $other . "</p>";
        ?>
    </div>

</body>
</html>
```
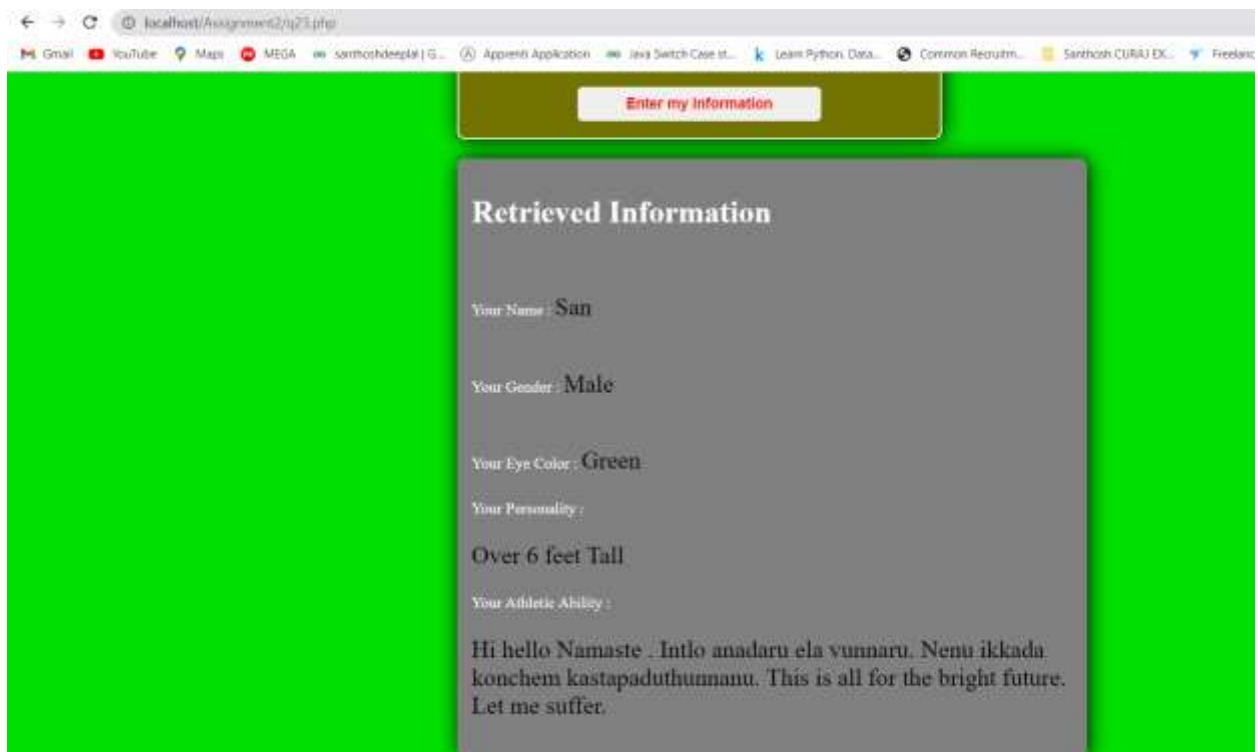
Write a PHP program that tests whether an e-mail address is input correctly. Verify that the input begins with series of characters, followed by the @ character, another series of characters, a period (.) and a final series of characters. Test your program, using both valid and invalid email addresses.

Code:

```
<!DOCTYPE html>
<html>
<head>
        <title>Email Address Validation</title>
        <style>
```

```css
        body{
            padding: 15% 30%;
            background-color: yellow;
        }
                form {
                        width: 400px;
                        margin: 0 auto;
                        text-align: center;
                        font-size: 1.2em;
                }
                label {
                        display: block;
                        margin-bottom: 10px;
                        font-weight: bold;
                }
                input[type="text"] {

                        font-size: 1.2em;
                        border: 1px solid #ccc;
                        border-radius: 5px;
                        margin-bottom: 20px;
                }
                input[type="submit"] {

                        background-color: #4CAF50;
                        color: white;
                        border: none;
                        border-radius: 5px;
                        font-size: 1.2em;
                        cursor: pointer;
                }
                p {
                        margin-top: 20px;
                        font-size: 1.2em;
                        font-weight: bold;
                }
                .valid {
                        color: green;
                }
                .invalid {
                        color: red;
                }
        </style>
</head>
<body>
        <form method="POST">
                <label for="email">Email:</label>
                <input type="text" name="email" id="email"><br>
                <input type="submit" value="Validate">
        </form>

        <?php
                // Check if form is submitted and validate email
                if ($_SERVER["REQUEST_METHOD"] == "POST") {
                        $email = $_POST["email"];

                        // Define a regular expression pattern for email validation
                        $pattern = "/^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/";
```

```php
                          // Test if email matches pattern and display result
                          if (preg_match($pattern, $email)) {
                                  echo "<p class='valid'>Email address $email is valid.</p>";
                          } else {
                                  echo "<p class='invalid'>Email address $email is not valid.</p>";
                          }
                  }
          ?>
</body>
</html>
```

25. Write a PHP program to generate and display the first n lines of a Floyd triangle.
(use n=5 and n=11 rows).
Sample output for n = 5 :
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
Code:

```php
<?php
function floyd_triangle($n)
{
    $num = 1;
    for ($i = 1; $i <= $n; $i++) {
        for ($j = 1; $j <= $i; $j++) {
            echo $num . " ";
            $num++;
        }
        echo "<br>";
    }
}

// Generate and display the first 5 lines of a Floyd triangle
echo "Floyd triangle with 5 rows:<br>";
floyd_triangle(5);
```

```
// Generate and display the first 11 lines of a Floyd triangle
echo "<br>Floyd triangle with 11 rows:<br>";
floyd_triangle(11);
?>
```


← → C ⓘ localhost/Assignment2/q25.php

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Floyd triangle with 5 rows:
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15

Floyd triangle with 11 rows:
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31 32 33 34 35 36
37 38 39 40 41 42 43 44 45
46 47 48 49 50 51 52 53 54 55
56 57 58 59 60 61 62 63 64 65 66