1. **Develop a PHP program to display prime numbers between the given range and display the total number of prime numbers.**

```
<!DOCTYPE html>
<html>
<head>
    <title></title>
</head>
<body>
<form action="first.php" method="POST">
    <p>
    <p>Enter First Number<input type="text" name="num1" ></p>
    <p>Enter Second Number<input type="text" name="num2" ></p>
    <input type="submit" name="submit" value="Submit">
</form>
<?php

if(isset($_POST['submit']))
{
    $num1 = $_POST['num1'];
    $num2 = $_POST['num2'];
    $count=0;
    while($num1 < $num2)
    {
      $div_count=0;
      for ($i=1;$i<=$num1;$i++)
      {
        if(($num1%$i)==0)
        {
           $div_count++;
        }
      }
      if($div_count<3)
      {
        echo $num1."<br/> ";
         $count++;
      }
      $num1=$num1+1;
    }
    echo "Total Prime Numbers = ",$count;
}
?>
</body>
</html>
```

OUTPUT:

Enter First Number 5

Enter Second Number 25

Submit

5
7
11
13
17
19
23
Total Prime Numbers = 7

2. **Develop a PHP program and check message passing mechanism between pages.**

File Name: second.php

```html
<!DOCTYPE html>
<html>
<head>
     <title>Message Passing Mechanism</title>
</head>
<body>
<form action="messages.php" method="POST">
     <p>Enter Name:<input type="text" name="name"></p>
     <p>Enter Semester:
          <select name="sem">
               <option>First</option>
               <option>Second</option>
               <option>Third</option>
               <option>Fourth</option>
               <option>Fifth</option>
               <option>Sixth</option>
          </select>

     </p>
     <p>Gender:</p>
     <p>Male: <input type="radio" name="gender" value="Male">
          Female: <input type="radio" name="gender" value="Female">
     </p>

     <p>Select Subject:
          <select name="subject">
               <option>C</option>
               <option>C++</option>
               <option>Java</option>
               <option>PHP</option>
          </select>
     </p>
     <input type="submit" name="submit" value="Submit">

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

File Name: messages.php

```php
<?php
if(isset($_POST['submit']))
{
     $name = $_POST['name'];
     $sem = $_POST['sem'];
     $gender = $_POST['gender'];
     $subject = $_POST['subject'];

     echo "<br/>Name :",$name;
     echo "<br/>Semester: ",$sem;
     echo "<br/>Gender: ",$gender;
     echo "<br/>Subject :",$subject;

}
```

```
?>
```

OUTPUT:

Enter Name: Harish

Enter Semester: Sixth

Gender:

Male: ● Female: ○

Select Subject: PHP

Submit

After Click on Submit Button

Name :Harish
Semester: Sixth
Gender: Male
Subject :PHP

3. Write a PHP program to implement simple calculator operations

```
<!DOCTYPE html>
<html>
<head>
    <title>Simple Calculator</title>
</head>
<body>
<form action="third.php" method="POST">
    <p>
    <p>Enter First Number<input type="text" name="num1"  value="<?php if
(isset($_POST['num1'])) echo $_POST['num1']; ?>" ></p>
    <p>Enter Second Number<input type="text" name="num2" value="<?php if
(isset($_POST['num2'])) echo $_POST['num2']; ?>" ></p>
    <input type="submit" name="add" value="Add(+)">
    <input type="submit" name="sub" value="Sub(-)">
    <input type="submit" name="mul" value="Mul(x)">
    <input type="submit" name="div" value="Div(/)">
    <input type="submit" name="mod" value="Mod(%)">
</form>
<?php
if(isset($_POST['add']))
{
    echo "Addition = ",$_POST['num1'] + $_POST['num2'];
}
elseif(isset($_POST['sub']))
{
    echo "Subtraction = ",$_POST['num1'] - $_POST['num2'];
}
elseif(isset($_POST['mul']))
{
    echo "Multiplication = ",$_POST['num1'] * $_POST['num2'];
}
elseif(isset($_POST['div']))
{
    echo "Division = ",$_POST['num1'] / $_POST['num2'];
}
elseif(isset($_POST['mod']))
{
    echo "Modulus = ",$_POST['num1'] % $_POST['num2'];
}
?>
</body>
</html>
```

OUTPUT:

Enter First Number 12

Enter Second Number 23

Add(+) Sub(-) Mul(x) Div(/) Mod(%)
Addition = 35

4. Develop a PHP program to demonstrate String functions. (any 6).

```
<html>
<body>
    <form method="POST">
        <p>Assignment 4 - String Built-In Methods</p>
        <ol>
        <li>Length of String </li>
        <li>Number of Words in String</li>
        <li>String Reverse</li>
        <li>String Replace</li>
        <li>String Uppecase</li>
        <li>String Lowercase</li>
        </ol>
        <p><input type="text" name="num"></p>
        <p><input type="submit" name="submit" value="Submit"></p>
    </form>
<?php
if(isset($_POST['submit']))
{
    $str1="GSS College";
    $str2="This is web programming!";
    $str3="this is php ! well yes this is php ";
    echo "String1 is = ".$str1;
    echo "<br/> String2 is = ".$str2;
    echo "<br/> String3 is = ".$str3;
    echo "<br/>";
    $num = $_POST['num'];
    switch ($num) {
            case '1':
                echo "<br/><br/>Length of string 1 is ="
.strlen($str1);
                break;

            case '2':
                echo "<br/>The number of words in string2 are
".str_word_count($str2);
                break;
            case '3':
                echo "<br/>The reverse of string1 is ".strrev($str1);
                break;
            case '4':
                echo "<br/>The word php in string3 is replaced with
web :".str_replace("php","web",$str3);
                break;
            case '5':
                echo "<br/> converting string3 to uppercase : "
.strtoupper($str3);
                break;
            case '6':
                echo "<br/> converting string1 to lowercase : "
.strtolower($str1);
                break;
            default:
                echo "Please Enter Valid Number";
                break;
        }
```

```
        }

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

OUTPUT:

Assignment 4 - String Built-In Methods

1. Length of String
2. Number of Words in String
3. String Reverse
4. String Replace
5. String Uppecase
6. String Lowercase

```
2
```

Submit

String1 is = GSS College
String2 is = This is web programming!
String3 is = this is php ! well yes this is php

The number of words in string2 are 4

Assignment 4 - String Built-In Methods

1. Length of String
2. Number of Words in String
3. String Reverse
4. String Replace
5. String Uppecase
6. String Lowercase

```
4
```

Submit

String1 is = GSS College
String2 is = This is web programming!
String3 is = this is php ! well yes this is php

The word php in string3 is replaced with web :this is web ! well yes this is web

5. Write a PHP program to illustrate built in Array manipulation functions.(any 6)

```
<html>
<body>
    <form method="POST">
        <p>Assignment 5 - Array Manipulation</p>
        <ol>
        <li>Size of Array</li>
        <li>Array Merge (Array 1, Array2)</li>
        <li>Sort Array1 (Ascending &Descending)</li>
        <li>Array2 Reverse Order</li>
        <li>Array to String implode()</li>
        <li>Common elements in two arrays</li>
        </ol>
        <p>Enter your choice [1 to 6]</p>
        <p><input type="text" name="num"></p>
        <p><input type="submit" name="submit" value="Submit"></p>
    </form>
<?php
if(isset($_POST['submit']))
{
    $array1 = array("GSS","BCA","College");
    $array2 =
array("p"=>"GSS","q"=>"BSC","r"=>"College","s"=>"Belagavi");

    echo "<br>Array1 :<br>";
    print_r($array1);
    echo "<br>Array2 :<br>";
    print_r($array2);
    echo "<br>";
    $num = $_POST['num'];
    switch ($num) {
            case '1':
                    echo "<br>Size of the array1 is: ".
sizeof($array1);
                    echo "<br>Size of the array2 is: ".
sizeof($array2);
                    break;
            case '2':
                    $merged = array_merge($array1, $array2);
                    echo "<br> Merge array1 and array2<br>";
                    print_r($merged);
                break;
            case '3':
                    echo "<br>Sorted array in Ascending
order<br>";
                    sort($array1);
                    foreach ($array1 as $key => $value) {
                        echo $value,"<br>";
                    }
```

```php
                                echo "<br>Sorted array in Descending
order<br>";

                                rsort($array1);
                                foreach ($array1 as $key => $value) {
                                        echo $value,"<br>";
                                }
                        break;
                case '4':
                                echo "<br>Array2 in Reverse order<br>";
                                $reverse = array_reverse($array2);
                                foreach ($reverse as $key => $value) {
                                        echo $value,"<br>";
                                }
                        break;
                case '5':
                                echo "Array 1  to String :";
                                $str = implode ('$array1);
                                echo "$str";
                        break;
                case '6':
                                echo "Common elements form Array1 &
Array2";

                                $common = array_intersect($array1,
$array2);

                                print_r($common);
                        break;

                default:
                                echo "Please Enter Valid Number";
                        break;
                }
}
?>
</body>
</html>
```

OUTPUT :

Array Manipulation

1. Size of Array
2. Array Merge (Array 1, Array2)
3. Sort Array1 (Ascending & Discending)
4. Array2 Reverse Order
5. Array to String implode()
6. Common elements in two arrays

Enter your choice [1 to 6]

```
1
```

Submit

Array1 :
Array ([0] => GSS [1] => BCA [2] => College)
Array2 :
Array ([p] => GSS [q] => BSC [r] => College [s] => Belagavi)

Size of the array1 is: 3
Size of the array2 is: 4

6. **Write a PHP program that displays a different message based on time of day. For example page should display "Good Morning" if it is accessed in the morning**

```
<html>
<head>
<title>PHP Program for Displaying Greeting depending upon Current Time
Zone</title>
<style>
font
{
 background-color:blue;
 font-family:"cursive","lucida handwriting";
}
</style>
</head>
<body>
<h3> Assignment 6 - Displaying Greeting depending upon Current Time
Zone</h3>
<?php
date_default_timezone_set("Asia/Kolkata");
     echo "Today is :" ;
     echo date("jS F Y");

     echo "</br> Current time is :" ;
        echo date("G:i:s a");

        $h = date('G');

        if($h<12)
        {
            echo " </br><font> Good morning </font>";
        }
     else if($h>=12 && $h<16)
        {
            echo "</br> <font> Good afternoon </font> ";
        }
        else if($h>=16 && $h<=19)
        {
            echo "</br> <font> Good evening </font> ";
        }
        else
        {
            echo "</br> <font>Good Night</font>";
        }
    ?>
</body>
</html>
```

OUTPUT:

Assignment 6 - Displaying Greeting depending upon Current Time Zone

Today is :7th June 2024
Current time is :21:24:10 pm
Good Night

7. **Write a PHP program that accepts two numbers using a web form and calculates greatest common divisor (GCD) and least common multiple (LCM) of entered numbers.(Use recursive function)**

```
<!DOCTYPE html>
<html>
<head>
    <title>GCD & LCM</title>
</head>
<body>
<form method="post">

    <p>Enter First Number :<input type="text" name="num1"
value="<?php if (isset($_POST['num1'])) echo $_POST['num1'];
?>"  required></p>
    <p>Enter Second Number :<input type="text" name="num2"
value="<?php if (isset($_POST['num2'])) echo $_POST['num2'];
?>" required></p>
    <p><input type="submit" name="submit" value="Submit"></p>
</form>
</body>
</html>


<?php
if(isset($_POST['submit']))
{

$x = $_POST['num1'];
$y = $_POST['num2'];

function gcd($x, $y) {
  if ($y == 0)
    return $x;
  return gcd($y, $x%$y);
}

$lcm = ($x*$y)/gcd($x,$y);
echo "LCM of $x and $y is: $lcm <br>";
echo "GCD of $x and $y is: ".gcd($x,$y);
}
?>
```

OUTPUT

Enter First Number : 230

Enter Second Number : 25

Submit

LCM of 230 and 25 is: 1150
GCD of 230 and 25 is: 5

8. Develop a PHP program to demonstrate constructors and destructors.

```php
<?php
echo "Assign 8 - using constructors and destructors ";

//create a class called member
class Member
{

  private $username;
  private $location;
  private $homepage;

  //write the constuctor method
  public function __construct( $username, $location, $homepage )
 {
    $this->username = $username;
    $this->location = $location;
    $this->homepage = $homepage;
    echo "<br/> <br/> Object initialized ";
  }

 //display the initialized object properties
  public function showProfile()
 {
    echo "<dl>";
    echo "<dt>Username:</dt> <dd>$this->username</dd>";
    echo "<dt>Location:</dt> <dd>$this->location</dd>";
    echo "<dt>Homepage:</dt> <dd>$this->homepage</dd>";
    echo "</dl>";
  }

  public function __destruct()
  {
    echo "Object destroyed... Bye!!!";
  }

}// end of class

//create a new object
$aMember = new Member( "Rasmus", "Greenland", "http://www.php.net/"
);

//display the member profile
$aMember->showProfile();

//remove the object
unset($aMember);
?>
```

OUTPUT

Assign 8 - using constructors and destructors

Object initialized

Username:
        Rasmus
Location:
        Greenland
Homepage:
        http://www.php.net/

9. **Develop a PHP code to read the values entered into the form using the MySQL database**

```php
<!DOCTYPE html>
<html>
<head>
        <title>PHP MYSQL</title>
</head>
<body>
<?php $conn = mysqli_connect('localhost','root','','mydatabase')  ?>
<form method="post">
        <table>
            <tr>
                    <td colspan="2" style="text-align: center">STUDENTS
DATA</td>
            </tr>
        <tr>
            <td>ENTER UUCMS NO</td>
            <td><input type="text" name="uucms"></td>
        </tr>
        <tr>
        <td>ENTER NAME</td>
        <td><input type="text" name="name"></td>
        </tr>
        <tr>
        <td>ENTER SEMESTER</td>
            <td><select name='semester'>
                    <option>FIRST</option>
                    <option>SECOND</option>
                    <option>THIRD</option>
                    <option>FOURTH</option>
                    <option>FIFTH</option>
                    <option>SIXTH</option>
            </select></td>
        </p>
        </tr>
        <tr>
            <td>ENTER GENDER</td>
            <td>MALE<input type="radio" name="gender" value="Male">
            FEMALE<input type="radio" name="gender"
value="Female"></td>
        </tr>
        <tr>
            <td colspan="2" style="text-align: center"><input
type="submit" name="submit" value="SUBMIT"></td>
        </tr>
</form>
</table>
<?php
        if(isset($_POST['submit']))
        {
            $uucms = $_POST['uucms'];
```

```php
        $name = $_POST['name'];
        $semester = $_POST['semester'];
        $gender = $_POST['gender'];
        $query = mysqli_query($conn, "INSERT INTO
student(uucms_no,name,semester,gender)
VALUE('$uucms','$name','$semester','$gender')");
        if($query){
            echo "<script>alert('Record Inserted')</script>";
        }
    }
?>


<table border="1px">
    <tr>
        <th>SL NO</th>
        <th>UUCMS NO</th>
        <th>NAME</th>
        <th>SEMESTER</th>
        <th>GENDER</th>
    </tr>
    <tr>
    <?php
    $ret=mysqli_query($conn,"select * from student");
    $cnt=1;
    while ($row=mysqli_fetch_array($ret)){
    ?>
    <td>
        <?php echo $cnt; ?>
    </td>
    <td>
        <?php echo $row['uucms_no']; ?>
    </td>
        <td>
        <?php echo $row['name']; ?>
    </td>
    <td>
        <?php echo $row['semester']; ?>
    </td>
    <td>
        <?php echo $row['gender']; ?>
    </td>
    </tr>
<?php
$cnt = $cnt + 1;
} ?>
</table>
</body>
</html>
```
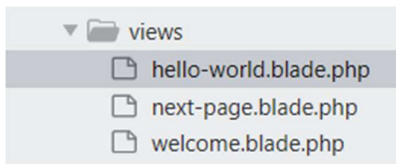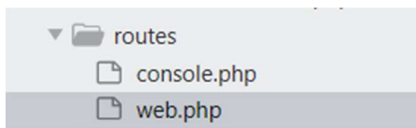
OUTPUT :

STUDENTS DATA

ENTER UUCMS NO [   ]

ENTER NAME [   ]

ENTER SEMESTER [FIRST ▾]

ENTER GENDER   MALE ◉ FEMALE ○

[SUBMIT]

SL NO	UUCMS NO	NAME	SEMESTER	GENDER
1	U15BL220001	Harish	FIRST	MALE
2	U15BL220002	MAHESH	FIRST	MALE
3	U15BL220003	Girish	FIRST	MALE

10.   Create Laravel Project using composer display Simple "Hello World" Message on Web page.


```html
<!DOCTYPE html>
<html>
<head>
      <title>Hello World</title>

</head>
<body>
<h1 style="color: blue">GSS COLLEGE</h1>
<h3 style="color: blue">BCA DEPARTMENT</h3>
<h3 style="color: blue">BELAGAVI</h3>
</body>
</html>
```



```php
<?php
use Illuminate\Support\Facades\Route;
Route::get('/', function () {
    return view('hello-world');
});
```
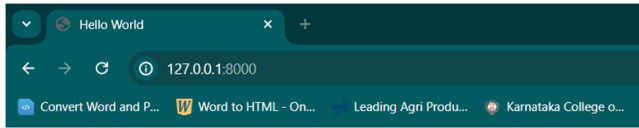
Type: php artisan serve
To run server

OUTPUT:

Hello World ×   +

← → C ⓘ 127.0.0.1:8000

Convert Word and P...   W Word to HTML - On...   Leading Agri Produ...   Karnataka College o...

GSS COLLEGE

BCA DEPARTMENT

BELAGAVI