



# Laboratory Manual

## PHP with Laravel(MCA293)

### Table of Contents

Assignment No.	Name of the Programs	Page
1	Create a php webpage and print “Hello World” message. Design HTML form and retrieve the values in PHP script. Write a program to enter TWO numbers and print the Swap Numbers using PHP. Create a php program to find odd or even number from given number.	4
2	1. Write a php program to find maximum of three numbers. Write a PHP program to compute give number multiplication table. Write a program to create Chess board in PHP using for loop	7
3	1. Write a program to calculate Electricity bill in PHP Conditions: For first 50 units – Rs. 3.50/unit For next 100 units – Rs. 4.00/unit For next 100 units – Rs. 5.20/unit For units above 250 – Rs. 6.50/unit You can use conditional statements. 2. To write a program for mathematical calculator.	10
4	1. Write a PHP program to create a String and store value on that string “php Program - the complete SOLUTION for WEB development”. Do the following operations. convert lowercase string to uppercase convert uppercase string to lowercase convert first character uppercase convert first character of all the words uppercase get the last 11 characters of string replace the first ‘the’ of the following string with ‘best’ get the Second word of a sentence insert a string at the specified position in a given string 2. Write a PHP script for the following: Design a form to accept a string. Write a function to count the total number of vowels (a,e,i,o,u) from the string. Show the occurrences of each vowel from the string.	13
5	1. Write a php program to check whether given number is String palindrome or not. 2. Write PHP program to display current date and display using getdate() function. 3. PHP Program to display digital clock with current time of the Server. 4. Write a PHP program to Get Server Information.	18
6	1. Write a PHP program to create an array and store 10 names in the array. Do the following operations.	19



	Display the contents using for each statement. Display the array in a sorted order. Display the array without the duplicate elements Remove the last element and display Display the array in reverse order Insert a new element in a specified position Search and find out position of an element from array																																											
7	1. Write a program in PHP get array key from given array list	22																																										
8	1. To create a self-processing form, use the \$_SERVER['REQUEST_METHOD'] that returns the request method e.g., GET or POST. If the \$_SERVER['REQUEST_METHOD'] is GET, you show the form. And if the \$_SERVER['REQUEST_METHOD'] is POST, you process it. 2. Create a form have three input field namely Task Name(text field), Message(text area),Task(list box) and a Add (submit button). A user will enter a task name and enter some text in Message (text area) then select Create Task from (list box) and submit the ADD button display information using php.	23																																										
9	1. Create CV format registration form with all HTML form element and submit and check client and server side validation.	25																																										
10	1. Write a program in PHP to get current directory, filename and code line number 2. Write a program in PHP to read from directory. 3. Write a PHP program to upload a file and get information about the upload file. 4. Write a PHP program to upload an image file within “upload” folder.	29																																										
11	1. Create following table on MySQL. Create a to-do list application using this table with PHP scripting. <table border="1"><thead><tr><th>#</th><th>Name</th><th>Type</th><th>Null</th><th>Default</th><th>Comments</th><th>Extra</th></tr></thead><tbody><tr><td>1</td><td>id</td><td>int(11)</td><td>No</td><td>None</td><td></td><td>AUTO_INCREMENT</td></tr><tr><td>2</td><td>task_des</td><td>text</td><td>No</td><td>None</td><td>Task</td><td></td></tr><tr><td>3</td><td>task</td><td>text</td><td>No</td><td>None</td><td></td><td></td></tr><tr><td>4</td><td>status</td><td>varchar(200)</td><td>No</td><td>None</td><td></td><td></td></tr><tr><td>5</td><td>date</td><td>date</td><td>No</td><td>None</td><td></td><td></td></tr></tbody></table> 1. Insert new task 2. View all task 3. Delete task 4. Modify task	#	Name	Type	Null	Default	Comments	Extra	1	id	int(11)	No	None		AUTO_INCREMENT	2	task_des	text	No	None	Task		3	task	text	No	None			4	status	varchar(200)	No	None			5	date	date	No	None			32
#	Name	Type	Null	Default	Comments	Extra																																						
1	id	int(11)	No	None		AUTO_INCREMENT																																						
2	task_des	text	No	None	Task																																							
3	task	text	No	None																																								
4	status	varchar(200)	No	None																																								
5	date	date	No	None																																								
12	1. Write the process to install Composer and create a Laravel Project with version Control and execute some Artisan command 2. Write basic blog application project with home page, about page, blog page with Laravel frame work (View, Route).	35																																										



13	1. Write basic To-do task application project with home page, about page, task page with Laravel frame work (Using Controllers, Views, Middleware).	35
14	1. Write basic To-do task application project with home page, about page, task page with Laravel frame work (Using Controllers, Views, Middleware, Eloquent) with CURD operation with login system using.	36

## Assignment No 1 - 14

### 1. Aim/Purpose of the Assignments:

**Assignment 1:** Aim of this assignment is to demonstrate basic Web development concepts with server side script using PHP, know basic PHP Syntax (includes defining variable, constant, data type and basic arithmetic Operations with operators). They provide a simple way to practice these concepts and understand how to perform common calculations using PHP programming.

**Assignment 2:** Aim of this assignment is to provide simple practice in PHP programming and showcase the use of user input from HTML interactive element like textbox and button, variable manipulation, and output.

**Assignment 3:** Aim of this assignment is to provide simple practice in PHP programming and showcase the use of user input from HTML interactive element like textbox and button, variable manipulation, and output. They also help in reinforcing concepts related to arithmetic operations, loops, and conditional statements in PHP.

**Assignment 4:** Aim of this assignment is to focus on String manipulation which are fundamental concepts in PHP programming. They provide valuable practice for handling string and solving problems related to String.

**Assignment 5:** Aim of this assignment is to focus on built in function concepts in PHP programming. They provide valuable practice for handling string and solving problems related to build in function.

**Assignment 6:** Aim of this assignment is to illustrate array in PHP and provide valuable practice for handling array in PHP.

**Assignment 7:** Aim of this assignment is to focus array and array related function in PHP and provide valuable practice for handling array in PHP.

**Assignment 8:** Aim of this assignment is to give a deeper understanding of Capturing Form and to handle Data Dealing with Multi-value field, Match, Search and Split function using PHP. They also help in reinforcing concepts related to POST, GET form method.

**Assignment 9:** Aim of this assignment is to give a deeper understanding of Capturing Form and to handle Data Dealing with file upload using PHP. They also help in reinforcing concepts related to POST, GET form method.

**Assignment 10:** Aim of this assignment is to illustrate the concept of file handling in PHP. Provide valuable practice for handling file in PHP.

**Assignment 11:** Aim of this assignment is to help programmers understand the basic knowledge of database with MYSQL and insert, view, delete, update operation with help of PHP scripting.

**Assignment 12:** Aim of this assignment is to help programmers understand the basics of Laravel framework and working with some valuable command in Laravel framework.

Name of the Faculty: Gopal Paul

Designation and Department: Assistant Professor (Computational Sciences)

Brainware University, Kolkata



**Assignment 13:** Aim of this assignment is to help programmers learn how to create views, route, middleware in Laravel and security concerns in environment variable and in the context of web development.

**Assignment 14:** Aim of this assignment is to help programmers learn Eloquent in Laravel and know the session and cookies in the context of web development using PHP.

### Learning Outcomes

1. Recall basic of PHP script and understand the framework and its installation.
2. Design appropriate user interfaces with validation and plan to implement web page based on given problem statement.
3. Consider a database and develop Laravel application using database CRUD operations.
4. Apply appropriate authentication by effectively using encryption/ decryption and focus importance of template inheritance implementations.
5. Prepare and develop dynamic web page using Laravel with database connectivity.

### 2. Prerequisites:

Basic knowledge of programming and web designing are required

### 3. Software required:

xamp/VS code/Composer

### 4. Introduction and Theory

**Assignment 1:** Aim of this assignment is to demonstrate basic Web development concepts with server side script using PHP, know basic PHP Syntax (includes defining variable, constant, data type and basic arithmetic Operations with operators). They provide a simple way to practice these concepts and understand how to perform common calculations using PHP programming.

#### 1. Create a php webpage and print "Hello World" message.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Hello World PHP</title>
</head>
<body>
<?php
  // PHP code goes here
  echo "Hello World!";
?>
</body>
</html>
```

#### 2. Design HTML form and retrieve the values in PHP script.

Enter your Name:

Enter Your Phone No.



Create a web page with interactive elements

```
<!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">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
  <title>Progrm-2</title>
</head>
<body>

<div class="container p-3">
  <div class="row justify-content-md-center">
    <div class="col-md-auto">
      <form action="gre3.php" method="post">
        <div class="p-1">Enter your Name: <input type="text" name="name"></div>
        <div class="p-1">Enter Your Phone No. <input type="text" name="phone"></div>
        <div class="p-1"><input type="submit" value="Submit"></div>
      </form>
    </div>
  </div>
</div>

</body>
</html>
```

Create a php file for retrieve data from web page

```
<!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>Progrm-1 OutPut</title>
</head><link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
<body>
<div class="container p-3">
  <div class="row justify-content-md-center">
    <div class="col-md-auto">
      <h1>Welcome</h1>
      <h2>Name: <?php echo $_POST['name'];?></h2>
      <h2>Phone No.: <?php echo $_POST['phone'];?></h2>
    </div>
  </div>
</div>
```



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

3. Write a program to enter TWO numbers and print the Swap Numbers using 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">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
  <title>Progrm-2</title>
</head>
<body>

<div class="container p-3">
  <div class="row justify-content-md-center">
    <div class="col-md-auto">
      <form action="progrm_6.php" method="post">
        <div class="p-1">Enter 1st Number:<input type="text" name="number1"></div>
        <div class="p-1">Enter 2nd Number:<input type="text" name="number2"></div>
        <div class="p-1"><input type="submit" value="Submit"></div>
      </form>
      <?php
      if($_POST){
        $number1=$_POST["number1"];
        $number2=$_POST["number2"];
        if($number1!=null&&$number2!=null){
          echo "1st Numbers is $number1<br>2nd Number is $number2<br>After Swap<br>";
          $number1=$number1+$number2;
          $number2=$number1-$number2;
          $number1=$number1-$number2;
          echo "1st Numbers is $number1<br>2nd Number is $number2";
        }
      }
    </div>
  </div>
</div>
</body>
</html>
```

4. Create a php program to find odd or even number from given number.

```
<!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">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
<title>Progrm-2 Even and Odd</title>
</head>
<body>

<div class="container p-3">
<div class="row p-1 justify-content-md-center">Even and Odd</div>
<div class="row justify-content-md-center">
<div class="col-md-auto">
<form action="progrm_4.php" method="post">
<div class="p-1">Enter Number: <input type="text" name="number"></div>
<div class="p-1"><input type="submit" value="Submit"></div>
</form>
<?php
if($_POST){
    $number=$_POST["number"];
    if($number!=null){
        if($number%2==0){
            echo "Enter number is ".$number." that number is Even";
        }else{
            echo "Enter number is ".$number." that number is Odd";
        }
    }
}
?>
</div>
</div>
</div>
</body>
</html>
```

**Assignment 2:** Aim of this assignment is to provide simple practice in PHP programming and showcase the use of user input from HTML interactive element like textbox and button, variable manipulation, and output.

**1. Write a php program to find maximum of three numbers.**

```
<!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">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
<title>Progrm-2</title>
```





```
</head>
<body>
<div class="container p-3">
<div class="row justify-content-md-center">
<div class="col-md-auto">
<form action="progrm_5.php" method="post">
<div class="p-1">Enter 1st Number:<input type="text" name="number1"></div>
<div class="p-1">Enter 2nd Number:<input type="text" name="number2"></div>
<div class="p-1">Enter 3rd Number:<input type="text" name="number3"></div>
<div class="p-1"><input type="submit" value="Submit"></div>
</form>
<?php
if($_POST){
$number1=$_POST["number1"];
$number2=$_POST["number2"];
$number3=$_POST["number3"];
if($number1!=null&&$number2!=null&&$number3!=null){
echo "Numbers are $number1,$number2,$number3<br>";
if($number1 > $number2){
if($number1 > $number3)
echo "Maximum num $number1";
else
echo "Maximum num $number3";
}else{
if($number3 > $number2)
echo "Maximum num $number3";
else
echo "Maximum num $number2";
}
}
}
?>
</div>
</div>
</div>
</body>
</html>
```

**3. Write a PHP program to compute give number multiplication table.**

```
<!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">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTWfSpd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
<title>Progrm-2</title>
```





```
</head>
<body>
<div class="container p-3">
<div class="row justify-content-md-center">
<div class="col-md-auto">
<form action="progrm_7.php" method="post">
<div class="p-1">Enter Number:<input type="text" name="number1"></div>

<div class="p-1"><input type="submit" value="Submit"></div>
</form>
<?php
if($_POST){
$number1=$_POST["number1"];
if($number1!=null){
for($i=1;$i<11;$i++){
$mul=$i*$number1;
echo "$i X $number1= $mul<br>";
}
}
}
?>
</div>
</div>
</div>
</body>
</html>
```

**4. Write a program to create Chess board in PHP using for loop**

```
<!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>
<table width="400px" cellspacing="0px" cellpadding="0px" border="1px">
<?php
for($row=1;$row<=8;$row++){
{
echo "<tr>";
for($column=1;$column<=8;$column++){
{
$total=$row+$column;
if($total%2==0)
{
echo "<td height=35px width=30px bgcolor=#FFFFFF></td>";
}
}
}
}
}
```



```
        else
        {
            echo "<td height=35px width=30px bgcolor=#000000></td>";
        }
    }
    echo "</tr>";
}
?>
</table>
</body>
</html>
```

**Assignment 3:** Aim of this assignment is to provide simple practice in PHP programming and showcase the use of user input from HTML interactive element like textbox and button, variable manipulation, and output. They also help in reinforcing concepts related to arithmetic operations, loops, and conditional statements in PHP.

**1. Write a program to calculate Electricity bill in PHP**

**Conditions:**

- For first 50 units – Rs. 3.50/unit
- For next 100 units – Rs. 4.00/unit
- For next 100 units – Rs. 5.20/unit
- For units above 250 – Rs. 6.50/unit

**You can use conditional statements.**

```
<!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">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
    <title>Php - Calculate Electricity Bill</title>
</head>

<body>
    <?php
    if($_POST){
        $number=$_POST["number"];
        if(!empty($number)){
            $result = calculate_bill($number);
            $result_str = "Total amount of ' . $number . ' - ' . $result;
        }
    }

    function calculate_bill($units) {
        $unit_cost_first = 3.50;
        $unit_cost_second = 4.00;
        $unit_cost_third = 5.20;
        $unit_cost_fourth = 6.50;
```



```
if($units <= 50) {
    $bill = $units * $unit_cost_first;
}
else if($units > 50 && $units <= 100) {
    $temp = 50 * $unit_cost_first;
    $remaining_units = $units - 50;
    $bill = $temp + ($remaining_units * $unit_cost_second);
}
else if($units > 100 && $units <= 200) {
    $temp = (50 * 3.5) + (100 * $unit_cost_second);
    $remaining_units = $units - 150;
    $bill = $temp + ($remaining_units * $unit_cost_third);
}
else {
    $temp = (50 * 3.5) + (100 * $unit_cost_second) + (100 * $unit_cost_third);
    $remaining_units = $units - 250;
    $bill = $temp + ($remaining_units * $unit_cost_fourth);
}
return number_format((float)$bill, 2, '.', '');
}

?>
<div class="container p-3">
    <div class="row p-1 justify-content-md-center">Php - Calculate Electricity Bill</div>
    <div class="row justify-content-md-center">
        <div class="col-md-auto">

            <form action="" method="post">
                <div class="p-1">Enter Units :<input type="text" name="number"
                    placeholder="Please enter no. of Units"></div>
                <div class="p-1"><input type="submit" value="Submit"></div>
            </form>

        </div>
    </div>
    <div class="row justify-content-md-center">
        <?php echo @$result_str;?>
    </div>
</div>
</body>
</html>
```

## 2. To write a program for mathematical calculator.



Enter First Input:

Enter Second Input:

Enter Your Choice:

- Choice--
- ADDITION
- SUBTRACTION
- MULTIPLICATION
- DIVISION

```
<!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">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css"
rel="stylesheet"
  integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLAsjC"
crossorigin="anonymous">
  <title>Progrm-9</title>
</head>
<body>
<?php
if(isset($_POST['submit'])){
  $fnumber=$_POST['fnumber'];
  $snumber=$_POST['snumber'];
  $choice=$_POST['choice'];
  switch($choice){
    case 'ADD':
      $res=$fnumber+$snumber;
      $msg="Addition of $fnumber,$snumber ";
      break;
    case 'SUB':
      $res=$fnumber-$snumber;
      $msg="SUBTRACTION of $fnumber,$snumber ";
      break;
    case 'MUL':
      $res=$fnumber*$snumber;
      $msg="MULTIPLICATION of $fnumber,$snumber ";
      break;
    case 'DIV':
      $res=$fnumber/$snumber;
      $msg="DIVISION of $fnumber,$snumber ";
      break;
  }
}
?>
<html>
<div class="container p-3">
```



```
<div class="row justify-content-md-center">
  <div class="col-md-auto">
    <form action="" method="post">
      <div class="p-1">Enter First Input: <input type="number" name="fnumber"
required></div>
      <div class="p-1">Enter Second Input: <input type="number" name="snumber"
required></div>
      <div class="p-1">
        Enter Your Choice:
        <select name="choice" required>
          <option value="" select>--Choice--</option>
          <option value="ADD">ADDITION</option>
          <option value="SUB">SUBTRACTION</option>
          <option value="MUL">MULTIPLICATION</option>
          <option value="DIV">DIVISION</option>
        </select>
      </div>
      <div class="p-1"><input type="submit" value="Submit" name="submit"></div>
    </form>
  </div>
</div>
<div class="row justify-content-md-center">
  <div class="col-md-auto">
    <?php echo @$msg." is <b>".@$res."</b>";?>
  </div>
</div>
</div>

</body>

</html>
```

**Assignment 4:** Aim of this assignment is to focus on String manipulation which are fundamental concepts in PHP programming. They provide valuable practice for handling string and solving problems related to String.

**1. Write a PHP program to create a String and store value on that string “php Program - the complete SOLUTION for WEB development”. Do the following operations.**

- convert lowercase string to uppercase
- convert uppercase string to lowercase
- convert first character uppercase
- convert first character of all the words uppercase
- get the last 11 characters of string
- replace the first ‘the’ of the following string with ‘best’
- get the Second word of a sentence
- insert a string at the specified position in a given string



### Php -String Operation

String operation :

- ☐ Lowercase to uppercase
- ☐ Uppercase to lowercase
- ☐ First character Uppercase
- ☐ First character of all the words uppercase
- ☐ Get the last  characters of string

- ☐ Replace the first  following string with
- ☐ Second word of a sentence
- ☐ Insert a string

Value :  Position of String :

Input String

the quick brown FOX jumps over the lazy DOG

Output String

```
<!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">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
    integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
  <title>Php - String operation</title>
</head>
<body>
  <?php
    $inputstring = "the quick brown FOX jumps over the lazy DOG";
  ?>
  <div class="container p-3">
    <div class="row p-1 justify-content-md-center">Php -String Opeartion</div>
    <div class="row justify-content-md-center">
      <div class="col-md-auto">

        <form action="" method="post">
          <div class="p-1">String operation : <br>
            <input type="radio" name="choice" value="upper" onclick="DisableTextBox()">Lowercase
            to uppercase<br />
            <input type="radio" name="choice" value="lower" onclick="DisableTextBox()">Uppercase
            to lowercase<br />
            <input type="radio" name="choice" value="fupper" onclick="DisableTextBox()">First
            character Uppercase<br />
            <input type="radio" name="choice" value="fwordupper" onclick="DisableTextBox()">First
            character of all the words uppercase<br />
          </div>
        </form>
      </div>
    </div>
  </div>
</body>
</html>
```

Name of the Faculty: Gopal Paul

Designation and Department: Assistant Professor (Computational Sciences)

Brainware University, Kolkata



```

        <input type=radio name=choice value="lastposition" onclick="DisableTextBox()">Get the
last <input type="text" name="lposition" id="lposition" size="3" disabled> characters of string<br
/><br>
        <input type="radio" name="choice" value="replace"
onclick="DisableTextBox()">Replace the first <input type="text" name="foundelement"
id="foundelement" placeholder="find Word" disabled> following string with <input type="text"
name="replaceelement" id="replaceelement" placeholder="replace word" disabled><br>
        <input type=radio name=choice value="secondword"
onclick="DisableTextBox()">Second word of a sentence<br />
        <input type=radio name=choice value="insert" onclick="DisableTextBox()">Insert a
string <br>
        Value :<input type="text" name="element" id="element" disabled> Position of String :
<input type="text" name="position" id="postion" disabled> <br>
    </div>
    <div class="p-1"><input type="submit" value="Submit"></div>
</form>

</div>
</div>
<div class="row justify-content-md-center">
    <?php echo "Input String <br>"; ?>
    <?php print_r($inputstring);?>
    <br>
    <?php echo "Output String <br>"; ?>

<?php
if($_POST){
    $val = $_POST['choice'];
    switch ($val) {
        case "upper":
            echo strtoupper($inputstring);
            break;
        case "lower":
            echo strtolower($inputstring);
            break;
        case "fupper":
            echo ucfirst($inputstring);
            break;
        case "fwordupper":
            echo ucwords($inputstring);
            break;
        case "lastposition":
            echo substr($inputstring,-($_POST['lposition']));
            break;
        case "replace":
            $search=$_POST['foundelement'];
            $replace=$_POST['replaceelement'];
            echo str_replace($search,$replace,$inputstring);
            break;
        case "secondword":
    
```





```
        echo "Second word is: ";
        $dataarray=explode(" ", $inputstring);
        echo $dataarray[1];
        break;
    case "insert":
        $element=" ".$_POST['element'];
        $position=$_POST['position'];
        echo substr_replace( $inputstring, $element, $position, 0 );
        break;
    }

}

?>

</div>
</div>

</body>
<script type="text/javascript">
function DisableTextBox() {
    //document.getElementById('element').disabled = true;
    //document.getElementById('postion').disabled = true;
    var choice = document.getElementsByName('choice');
    var choice_value;
    for (var i = 0; i < choice.length; i++) {
        if (choice[i].checked) {
            choice_value = choice[i].value;
        }
    }
    //alert(choice_value);
    if (choice_value == 'lastposition') {
        document.getElementById('lposition').disabled = false;
        document.getElementById('foundelement').disabled = true;
        document.getElementById('replaceelement').disabled = true;
        document.getElementById('element').disabled = true;
        document.getElementById('postion').disabled = true;
    } else if (choice_value == 'replace') {
        document.getElementById('lposition').disabled = true;
        document.getElementById('element').disabled = true;
        document.getElementById('postion').disabled = true;
        document.getElementById('foundelement').disabled = false;
        document.getElementById('replaceelement').disabled = false;
    } else if (choice_value == 'insert') {
        document.getElementById('element').disabled = false;
        document.getElementById('postion').disabled = false;
        document.getElementById('lposition').disabled = true;
        document.getElementById('foundelement').disabled = true;
        document.getElementById('replaceelement').disabled = true;
    } else {
        document.getElementById('lposition').disabled = true;
    }
}
```



```
document.getElementById('foundelement').disabled = true;
document.getElementById('replaceelement').disabled = true;
document.getElementById('element').disabled = true;
document.getElementById('postion').disabled = true;
}

}
</script>

</html>
```

**2. Write a PHP script for the following: Design a form to accept a string. Write a function to count the total number of vowels (a,e,i,o,u) from the string. Show the occurrences of each vowel from the string**

Enter Word :

a - position is 1

a - position is 3

madam - have No. of Vowels are 2

```
<!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">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
  <title>Progrm-2</title>
</head>
<body>

<div class="container p-3">
  <div class="row justify-content-md-center">
    <div class="col-md-auto">
      <form action="progrm_14.php" method="post">
        <div class="p-1">Enter Word : <input type="text" name="word"></div>
        <div class="p-1"><input type="submit" value="Submit"></div>
      </form>
    <?php
function countVowels($string){
  $vowels = array('a','e','i','o','u');
  $len = strlen($string);
  $num=0;
  for($i=0; $i<$len; $i++){
    if(in_array($string[$i], $vowels)){
      echo "$string[$i] - position is $i<br>";
      $num++;
    }
  }
}
```



```
    }
    return $num;
}
if($_POST){
    $word=$_POST["word"];
    $inputword=strtolower($word);
    if($word!=null){
        echo "$word - have No. of Vowels are ".countVowels($inputword);
    }
}
?>
</div>
</div>

</div>

</body>
</html>
```

**Assignment 5:** Aim of this assignment is to focus on built in function concepts in PHP programming. They provide valuable practice for handling string and solving problems related to build in function.

**1. Write a php program to check whether given number is String palindrome or not.**

```
<?php

function isPalindrome($number) {
    // Convert the number to a string
    $numberStr = strval($number);

    // Reverse the string
    $reverseStr = strrev($numberStr);

    // Check if the original and reversed strings are the same
    return $numberStr === $reverseStr;
}

// Example usage
$givenNumber = 12321;

if(isPalindrome($givenNumber)) {
    echo $givenNumber . " is a palindrome.";
} else {
    echo $givenNumber . " is not a palindrome.";
}

?>
```

**2. Write PHP program to display current date and display using getdate() function.**

```
<!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
$date_array=getdate();
foreach($date_array as $key=>$val){
    echo $key."="."$val."<br>";
}
echo "<h1>Today's date: ".$date_array['mon']. "/" . $date_array['mday']. "/" . $date_array['year']. "</h1>";
?>
</body>
</html>
```

3. PHP Program to display digital clock with current time of the Server.

**4. Write a PHP program to Get Server Information.**

```
<!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
echo"<pre>";
print_r($_SERVER);
echo"</pre>";
?>

</body>
</html>
```

**Assignment 6:** Aim of this assignment is to illustrate array in PHP and provide valuable practice for handling array in PHP.

**1. Write a PHP program to create an array and store 10 names in the array. Do the following operations.**

- Display the contents using for each statement.
- Display the array in a sorted order.
- Display the array without the duplicate elements
- Remove the last element and display
- Display the array in reverse order
- Insert a new element in a specified position
- Search and find out position of an element from array

```
<!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">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
    integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC"
crossorigin="anonymous">
<title>Php - Sum of the Individual Digits</title>
</head>

<body>
<?php
    $countries = array("Chile", "Colombia", "India", "India", "Italy", "Chile", "Austria", "New Zealand",
    "United States");
    if($_POST){

    }
    ?>
    <div class="container p-3">
        <div class="row p-1 justify-content-md-center">Php -Array Opeartion</div>
        <div class="row justify-content-md-center">
            <div class="col-md-auto">

                <form action="" method="post">
                    <div class="p-1">Array operation : <br>
                        <input type="radio" name="choice" value="display" onclick="DisableTextBox()">Display
Array<br />
                        <input type="radio" name="choice" value="sort" onclick="DisableTextBox()">Sorted Array<br
/>
                        <input type="radio" name="choice" value="dupli" onclick="DisableTextBox()">Without
Duplicate<br />
                        <input type="radio" name="choice" value="pop" onclick="DisableTextBox()">Delete Last<br />
                        <input type="radio" name="choice" value="rev" onclick="DisableTextBox()">Array
Reverse<br />
                        <input type="radio" name="choice" value="insert" onclick="DisableTextBox()">Element
Insert<br>
                        Value :<input type="text" name="element" id="element" disabled> Position of array :
<input
                            type="text" name="position" id="postion" disabled> <br>
                        <input type="radio" name="choice" value="find" onclick="DisableTextBox()">Array
Serarch<br />
                        Find Element :<input type="text" name="serach" id="find" disabled>

                    </div>
                    <div class="p-1"><input type="submit" value="Submit"></div>
                </form>

            </div>
        </div>
    </div>
    <div class="row justify-content-md-center">

```



```
<?php echo "Array List <br>"; ?>
<?php print_r($countries);?>

<?php
$countries = array("Chile", "Colombia", "India", "India", "Italy", "Chile", "Austria", "New Zealand",
"United States");
if($_POST){
    $val = $_POST['choice'];
    switch ($val) {
        case "display":
            foreach ($countries as $value)
                echo "<br>" . $value;
            break;
        case "sort":
            sort($countries);
            foreach ($countries as $value)
                echo "<br>" . $value;
            break;
        case "dupli":
            $uarray = array_unique($countries);
            foreach ($uarray as $value)
                echo "<br>" . $value;
            break;
        case "pop":
            array_pop($countries);
            foreach ($countries as $value)
                echo "<br>" . $value;
            break;
        case "rev":
            $revarr = array_reverse($countries);
            foreach ($revarr as $value)
                echo "<br>" . $value;
            break;
        case "insert":
            array_splice( $countries, $_POST['position'], 0, $_POST['element'] );
            foreach ($countries as $value)
                echo "<br>" . $value;
            break;
        case "find":
            //echo array_search($_POST['serach'], $countries,TRUE);
            if(in_array($_POST['serach'], $countries)){
                echo "<br> Find Search element " . $_POST['serach']. " at position
".array_search($_POST['serach'], $countries);
            }else{
                echo "<br> Element not Found";
            }
            foreach ($countries as $value)
                echo "<br>" . $value;
            break;
    }
}
```



```
    }
    ?>

</div>
</div>

</body>
<script type="text/javascript">
function DisableTextBox() {
    //document.getElementById('element').disabled = true;
    //document.getElementById('postion').disabled = true;
    var choice = document.getElementsByName('choice');
    var choice_value;
    for (var i = 0; i < choice.length; i++) {
        if (choice[i].checked) {
            choice_value = choice[i].value;
        }
    }
    //alert(choice_value);
    if (choice_value == 'insert') {
        document.getElementById('element').disabled = false;
        document.getElementById('postion').disabled = false;
        document.getElementById('find').disabled = true;
    } else if (choice_value == 'find') {
        document.getElementById('find').disabled = false;
        document.getElementById('element').disabled = true;
        document.getElementById('postion').disabled = true;
    } else {
        document.getElementById('find').disabled = true;
        document.getElementById('element').disabled = true;
        document.getElementById('postion').disabled = true;
    }
}
}
</script>

</html>
```

**Assignment 7:** Aim of this assignment is to focus array and array related function in PHP and provide valuable practice for handling array in PHP.

**1. Write a program in PHP get array key from given array list**

```
<!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">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"
```





```
integrity="sha384-
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"
crossorigin="anonymous">
<title>Php - Sum of the Individual Digits</title>
</head>

<body>
<?php
    $countries = array("Chile", "Colombia", "India", "India", "Italy","Chile", "Austria", "New Zealand",
    "United States");
    $array = array("apple", "orange", "banana", "kiwi", "lemon");
    ?>
    <div class="container p-3">
        <div class="row p-1 justify-content-md-center">Php -Array Key Opeartion</div>
        <div class="row justify-content-md-center">
            <div class="col-md-auto">

                <form action="" method="post">
                    <div class="p-1">Array Key operation : <br>
                        Find key :<input type="text" name="serach" id="find">
                    </div>
                    <div class="p-1"><input type="submit" value="Submit"></div>
                </form>

            </div>
        </div>
        <div class="row justify-content-md-center">
            <?php echo "Array List <br>"; ?>
            <?php print_r($array);?>
            <br>
            <?php
                if($_POST){
                    $search=$_POST['serach'];
                    print_r(array_keys($array, $search));
                }
            ?>
        </div>
    </div>

</body>

</html>
```

**Assignment 8:** Aim of this assignment is to give a deeper understanding of Capturing Form and to handle Data Dealing with Multi-value field, Match, Search and Split function using PHP. They also help in reinforcing concepts related to POST, GET form method.

**1. To create a self-processing form, use the `$_SERVER['REQUEST_METHOD']` that returns the request method e.g., GET or POST.**

- If the `$_SERVER['REQUEST_METHOD']` is GET, you show the form.
- And if the `$_SERVER['REQUEST_METHOD']` is POST, you process it.



```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet" href="css/style.css">
  <title>PHP Form</title>
</head>
<body>
  <main>
    <?php if ($_SERVER['REQUEST_METHOD'] === 'GET') : ?>
      <form action="<?php htmlspecialchars($_SERVER['PHP_SELF']) ?>" method="post">
        <div>
          <label for="name">Name:</label>
          <input type="text" name="name" required="required" placeholder="Enter your name" />
        </div>
        <div>
          <label for="name">Email:</label>
          <input type="email" name="email" required="required" placeholder="Enter your email" />
        </div>
        <button type="submit">Subscribe</button>
      </form>
    <?php else : ?>
      <?php
      //-----
      // WARNING: this doesn't include sanitization
      // and validation
      //-----
      if (isset($_POST['name'], $_POST['email'])) {
        $name = htmlspecialchars($_POST['name']);
        $email = htmlspecialchars($_POST['email']);
        // show the $name and $email
        echo "Thanks $name for your subscription.<br>";
        echo "Please confirm it in your inbox of the email $email.";
      } else {
        echo 'You need to provide your name and email address.';
      }
    ?>
  <?php endif ?>
</main>
</body>
</html>
```

2. Create a form have three input field namely Task Name(text field), Message(text area),Task(list box) and a Add (submit button). A user will enter a task name and enter some text in Message (text area) then select Create Task from (list box) and submit the ADD button and display information using php.

#### HTML Code

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```



```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Task Form</title>
</head>
<body>

<h2>Create Task</h2>

<form action="process_form.php" method="post">
  <label for="taskName">Task Name:</label>
  <input type="text" id="taskName" name="taskName" required><br>

  <label for="message">Message:</label>
  <textarea id="message" name="message" rows="4" required></textarea><br>

  <label for="task">Task:</label>
  <select id="task" name="task" required>
    <option value="Create Task">Create Task</option>
    <option value="Update Task">Update Task</option>
    <option value="Delete Task">Delete Task</option>
  </select><br>

  <input type="submit" value="Add">
</form>

</body>
</html>
PHP Code
<?php
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  // Retrieve form data
  $taskName = $_POST["taskName"];
  $message = $_POST["message"];
  $selectedTask = $_POST["task"];

  // Display the information
  echo "<h2>Task Information</h2>";
  echo "<p><strong>Task Name:</strong> $taskName</p>";
  echo "<p><strong>Message:</strong> $message</p>";
  echo "<p><strong>Selected Task:</strong> $selectedTask</p>";
} else {
  // Handle invalid access
  echo "Invalid access.";
}

?>
```

**Assignment 9:** Aim of this assignment is to give a deeper understanding of Capturing Form and to handle Data Dealing with file upload using PHP. They also help in reinforcing concepts related to POST, GET form method.

**1. Create CV format registration form with all HTML form element and submit and check client and server side validation.**



### HTML Code

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>CV Registration Form</title>
  <style>
    .error {
      color: red;
    }
  </style>
</head>
<body>

<h2>CV Registration Form</h2>

<form action="process_registration.php" method="post" onsubmit="return validateForm()">
  <label for="fullName">Full Name:</label>
  <input type="text" id="fullName" name="fullName" required>
  <span class="error" id="fullNameError"></span><br>

  <label for="email">Email:</label>
  <input type="email" id="email" name="email" required>
  <span class="error" id="emailError"></span><br>

  <label for="phone">Phone:</label>
  <input type="tel" id="phone" name="phone" pattern="[0-9]{10}" required>
  <span class="error" id="phoneError"></span><br>

  <label for="address">Address:</label>
  <textarea id="address" name="address" rows="4" required></textarea>
  <span class="error" id="addressError"></span><br>

  <label for="resume">Resume URL:</label>
  <input type="url" id="resume" name="resume" required>
  <span class="error" id="resumeError"></span><br>

  <input type="submit" value="Submit">
</form>

<script>
function validateForm() {
  var fullName = document.getElementById("fullName").value;
  var email = document.getElementById("email").value;
  var phone = document.getElementById("phone").value;
  var address = document.getElementById("address").value;
  var resume = document.getElementById("resume").value;

  var fullNameError = document.getElementById("fullNameError");
```



```
var emailError = document.getElementById("emailError");
var phoneError = document.getElementById("phoneError");
var addressError = document.getElementById("addressError");
var resumeError = document.getElementById("resumeError");

fullNameError.innerHTML = emailError.innerHTML = phoneError.innerHTML =
addressError.innerHTML = resumeError.innerHTML = "";

var isValid = true;

if (fullName === "") {
    fullNameError.innerHTML = "Full Name is required.";
    isValid = false;
}

if (email === "") {
    emailError.innerHTML = "Email is required.";
    isValid = false;
} else if (!isValidEmail(email)) {
    emailError.innerHTML = "Invalid email format.";
    isValid = false;
}

if (phone === "") {
    phoneError.innerHTML = "Phone is required.";
    isValid = false;
} else if (!isValidPhone(phone)) {
    phoneError.innerHTML = "Invalid phone number (10 digits only).";
    isValid = false;
}

if (address === "") {
    addressError.innerHTML = "Address is required.";
    isValid = false;
}

if (resume === "") {
    resumeError.innerHTML = "Resume URL is required.";
    isValid = false;
}

return isValid;
}

function isValidEmail(email) {
    var emailRegex = /^[S+@\S+\.\S+$/;
    return emailRegex.test(email);
}

function isValidPhone(phone) {
```



```
        var phoneRegex = /^d{10}$/;  
        return phoneRegex.test(phone);  
    }  
</script>
```

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

### **PHP Code**

```
<?php  
  
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
    // Server-side validation  
    $fullName = $_POST["fullName"];  
    $email = $_POST["email"];  
    $phone = $_POST["phone"];  
    $address = $_POST["address"];  
    $resume = $_POST["resume"];  
  
    $errors = [];  
  
    if (empty($fullName)) {  
        $errors[] = "Full Name is required.";  
    }  
  
    if (empty($email)) {  
        $errors[] = "Email is required.";  
    } elseif (!filter_var($email, FILTER_VALIDATE_EMAIL)) {  
        $errors[] = "Invalid email format.";  
    }  
  
    if (empty($phone)) {  
        $errors[] = "Phone is required.";  
    } elseif (!preg_match("/^d{10}$/", $phone)) {  
        $errors[] = "Invalid phone number (10 digits only).";  
    }  
  
    if (empty($address)) {  
        $errors[] = "Address is required.";  
    }  
  
    if (empty($resume)) {  
        $errors[] = "Resume URL is required.";  
    }  
  
    // Display errors or success message  
    if (!empty($errors)) {  
        echo "<h2>Error</h2>";  
        foreach ($errors as $error) {  
            echo "<p>$error</p>";  
        }  
    }  
}
```



```
} else {
    echo "<h2>Registration Successful</h2>";
    echo "<p><strong>Full Name:</strong> $fullName</p>";
    echo "<p><strong>Email:</strong> $email</p>";
    echo "<p><strong>Phone:</strong> $phone</p>";
    echo "<p><strong>Address:</strong> $address</p>";
    echo "<p><strong>Resume URL:</strong> $resume</p>";
}
} else {
    // Handle invalid access
    echo "Invalid access.";
}

?>
```

**Assignment 10:** Aim of this assignment is to illustrate the concept of file handling in PHP. Provide valuable practice for handling file in PHP

**1. Write a program in PHP to get current directory, filename and code line number**

```
<!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 echo "The current directory of this file is :". __DIR__ . "<br>"; ?>
    <?php echo "The current file with path is :". __FILE__ . "<br>"; ?>
    <?php echo "The line number of this code is :". __LINE__ . "<br>"; ?>
</body>
</html>
```

**2. Write a program in PHP to read from directory.**

```
<!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
        $current_dir = __DIR__ ;
        $dir = opendir($current_dir);
        echo "<p>Upload directory is $current_dir</p>";
        echo '<p>Directory Listing:</p>';
        echo '<ul>';
        while($file = readdir($dir))
        {
            echo "<li>".$file."</li>";
        }
    </?php>
</body>
</html>
```





```
}  
echo '</ul>';  
closedir($dir);  
?>  
</body>  
</html>
```

**3. Write a PHP program to upload a file and get information about the upload file.**

```
<!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">  
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"  
    integrity="sha384-  
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLASjC"  
    crossorigin="anonymous">  
  <title>Php - Sum of the Individual Digits</title>  
</head>  
  
<body>  
  
  <div class="container p-3">  
    <div class="row p-1 justify-content-md-center">Php - File INFORMATION</div>  
    <div class="row justify-content-md-center">  
      <div class="col-md-auto">  
  
        <form action="" method="post" enctype="multipart/form-data">  
          <div class="p-1">  
            <input type="file" name="file">  
          </div>  
          <div class="p-1"><input type="submit" value="Submit"></div>  
        </form>  
  
      </div>  
    </div>  
  <div class="row justify-content-md-center">  
  
    <?php  
  
    if($_FILES){  
      print_r($_FILES);  
      echo "<br>Filename: " . $_FILES['file']['name'] . "<br>";  
      echo "Type : " . $_FILES['file']['type'] . "<br>";  
      echo "Size : " . $_FILES['file']['size'] . "<br>";  
      echo "Temp name: " . $_FILES['file']['tmp_name'] . "<br>";  
      echo "Error : " . $_FILES['file']['error'] . "<br>";  
    }else{  
      echo "Upload a File";  
    }  
  }  
</div>  
</div>
```



```
}  
  
?>  
</div>  
</div>  
  
</body>
```

```
</html>
```

**4. Write a PHP program to upload an image file within “upload” folder.**

```
<!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">  
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"  
    integrity="sha384-  
EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOMLAsjC"  
    crossorigin="anonymous">  
  <title>Php - Sum of the Individual Digits</title>  
</head>  
  
<body>  
  
  <div class="container p-3">  
    <div class="row p-1 justify-content-md-center">Php - File INFORMATION</div>  
    <div class="row justify-content-md-center">  
      <div class="col-md-auto">  
  
        <form action="" method="post" enctype="multipart/form-data">  
          <div class="p-1">  
            <input type="file" name="file">  
          </div>  
          <div class="p-1"><input type="submit" value="Submit"></div>  
        </form>  
  
      </div>  
    </div>  
  
    <div class="row justify-content-md-center">  
  
      <?php  
        if(isset($_FILES['file'])){  
          print_r($_FILES);  
          echo "<br>Filename: " . $_FILES['file']['name'] . "<br>";  
          echo "Type : " . $_FILES['file']['type'] . "<br>";  
          echo "Size : " . $_FILES['file']['size'] . "<br>";  
          echo "Temp name: " . $_FILES['file']['tmp_name'] . "<br>";  
        }  
      </?php>  
    </div>  
  </div>
```



```

        echo "Error : " . $_FILES['file']['error'] . "<br>";
    }
?>
<?php
if(isset($_FILES['file'])) {
    $errors = array();
    $file_name = $_FILES['file']['name'];
    $file_size = $_FILES['file']['size'];
    $file_tmp = $_FILES['file']['tmp_name'];
    $file_type = $_FILES['file']['type'];
    $file_ext = strtolower(end(explode('.', $file_name)));
    $extensions = array("jpeg", "jpg", "png");

    if(in_array($file_ext, $extensions) === false) {
        $errors[] = "extension not allowed, please choose a JPEG or PNG file.";
    }
    // if($file_size > 2097152) {
    //     $errors[] = 'File size must be exactly 2 MB';
    // }
    if(file_exists("upload/" . $file_name)) {
        $errors[] = 'A File With The Same Name Already Exists';
    }
    if(empty($errors) == true) {
        move_uploaded_file($file_tmp, "upload/" . $file_name);
        echo "Success";
    } else {
        print_r($errors);
    }
}
?>

</div>
</div>

</body>

</html>

```

**Assignment 11:** Aim of this assignment is to help programmers understand the basic knowledge of database with MySQL and insert, view, delete, update operation with help of PHP scripting.

1. Create following table on MySQL. Create a to-do list application using this table with PHP scripting.

#	Name	Type	Null	Default	Comments	Extra
1	id	int(11)	No	None		AUTO_INCREMENT
2	task_des	text	No	None	Task	
3	task	text	No	None		
4	status	varchar(200)	No	None		



5	date	date	No	None		
	1.	Insert new task				
	2.	View all task				
	3.	Delete task				
	4.	Modify task				

First, create the MySQL table. You can execute the following SQL query in your MySQL database:

```
CREATE TABLE todo_list (  
  id INT AUTO_INCREMENT PRIMARY KEY,  
  task_name VARCHAR(255) NOT NULL,  
  task_description TEXT,  
  due_date DATE,  
  status ENUM('Pending', 'Completed') DEFAULT 'Pending'  
);
```

#### PHP Code

```
<?php  
$servername = "your_server_name";  
$username = "your_username";  
$password = "your_password";  
$dbname = "your_database_name";  
  
// Create connection  
$conn = new mysqli($servername, $username, $password, $dbname);  
  
// Check connection  
if ($conn->connect_error) {  
    die("Connection failed: " . $conn->connect_error);  
}  
  
// Add Task  
if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["addTask"])) {  
    $taskName = $_POST["taskName"];  
    $taskDescription = $_POST["taskDescription"];  
    $dueDate = $_POST["dueDate"];  
  
    $sql = "INSERT INTO todo_list (task_name, task_description, due_date) VALUES ('$taskName',  
    '$taskDescription', '$dueDate')";  
  
    if ($conn->query($sql) === TRUE) {  
        echo "Task added successfully!";  
    } else {  
        echo "Error: " . $sql . "<br>" . $conn->error;  
    }  
}  
  
// Fetch Tasks
```



```
$sql = "SELECT * FROM todo_list";
$result = $conn->query($sql);

?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>To-Do List</title>
</head>
<body>

<h2>To-Do List</h2>

<!-- Add Task Form -->
<form method="post" action="">
    <label for="taskName">Task Name:</label>
    <input type="text" name="taskName" required><br>

    <label for="taskDescription">Task Description:</label>
    <textarea name="taskDescription"></textarea><br>

    <label for="dueDate">Due Date:</label>
    <input type="date" name="dueDate"><br>

    <input type="submit" name="addTask" value="Add Task">
</form>

<!-- Display Tasks -->
<h3>Tasks:</h3>
<table border="1">
    <tr>
        <th>ID</th>
        <th>Task Name</th>
        <th>Task Description</th>
        <th>Due Date</th>
        <th>Status</th>
    </tr>

    <?php
    if ($result->num_rows > 0) {
        while ($row = $result->fetch_assoc()) {
            echo "<tr>";
            echo "<td>" . $row["id"] . "</td>";
            echo "<td>" . $row["task_name"] . "</td>";
            echo "<td>" . $row["task_description"] . "</td>";
            echo "<td>" . $row["due_date"] . "</td>";
            echo "<td>" . $row["status"] . "</td>";
```



```
        echo "</tr>";
    }
} else {
    echo "<tr><td colspan='5'>No tasks found.</td></tr>";
}
?>
</table>

</body>
</html>

<?php
// Close connection
$conn->close();
?>
```

**Assignment 12:** Aim of this assignment is to help programmers understand the basics of Laravel framework and working with some valuable command in Laravel framework.

**Installation:**

To install Laravel, you need to have Composer installed. Run the following command to create a new Laravel project:

**composer create-project --prefer-dist laravel/laravel your\_project\_name**

**Artisan:**

Laravel's command-line tool is called Artisan. It provides a number of helpful commands for common tasks. You can see a list of available Artisan commands by running:

**php artisan list**

**Serve:**

You can use Artisan to quickly start a development server:

**php artisan serve**

**Routes:**

Laravel uses routes to determine which controller and method to call based on the HTTP request. Routes are defined in the routes/web.php file. Here's an example route:

**Route::get('/hello', 'HelloController@index');**

Write basic blog application project with home page, about page, blog page with Laravel frame work (View, Route).

Step 1: Create a New Laravel Project

Step 2: Create Routes

Step 3: Create Controllers

Step 4: Create Views

Step 5: Test Your Application

**Assignment 13:** Aim of this assignment is to help programmers learn how to create views, route, middleware in Laravel and security concerns in environment variable and in the context of web development.

Write basic To-do task application project with home page, about page, task page with Laravel frame work (Using Controllers, Views, Middleware).

Step 1: Configure Environment Variables

Step 2: Update Database Configuration

Step 3: Secure Your .env File

Step 4: Create Middleware for API Key Verification

Step 5: Apply Middleware to Task Route



- Step 6: Use Environment Variables in the Task Controller
- Step 7: Display API Key in the Task View
- Step 8: Test Your Application

**Assignment 14:** Aim of this assignment is to help programmers learn Eloquent in Laravel and know the session and cookies in the context of web development using PHP.

**Step 1: Set Up Database and Eloquent Model**

1. **Database Configuration:** Ensure that your `.env` file has the correct database configuration, as mentioned in the previous responses.
2. **Create a Model:** Generate a model for the **Task** entity:
3. **Define Eloquent Model:** Edit `app/Models/Task.php` to define the **Task** Eloquent model:

**Step 2: Update Task Controller**

**Step 3: Update Task Views**

**Step 4: Sessions and Cookies**

**Step 5: Test Your Application**

**5. Operating Procedure:**

Standard operating procedure for using XAMP as per the instruction of the faculty member

**6. Precautions and/or Troubleshooting**

Debugging while running the program

**7. Observations**

Take different possible inputs and observe the output

**8. Calculations & Analysis**

Assignment 1-14: Compile and Run time execution.

**9. Result & Interpretation**

The result or output have to be shown in computer and write it in the assignment copy

**10. Follow-up Questions**

**Assignment 1:**

- Describe about PHP, it's features, advantages and disadvantages.
- Describe difference between static and dynamic websites.
- Describe about server and local host server.
- Define about different data types in PHP.
- State the characteristics of PHP

**Assignment 2:**

- Describe the declaration process of a variable in PHP with php code.
- Describe declaration process a constant in PHP.
- Discuss about operator and types.

**Assignment 3:**

- Explain about Conditional or Decision making statement and its types.
- Discuss about loop and its types.

**Assignment 4:**

- Show the different types of strings and math function in PHP.
- Express about array and Super global array

**Assignment 5:**

Name of the Faculty: Gopal Paul

Designation and Department: Assistant Professor (Computational Sciences)

Brainware University, Kolkata





- What is the difference between the include() and require() functions?
- What are PHP Magic Methods/Functions?

**Assignment 6:**

- What are the different types of Array in PHP?
- Explain the differences between indexed and associative arrays.

**Assignment 7:**

- What is difference between array\_merge and array\_combine?
- What is difference between count or sizeof function in php?
- How to check a key exist in an array?

**Assignment 8:**

- Discuss at least 5 types of form elements and fields.
- Discuss GET, POST method in PHP

**Assignment 9:**

- How does PHP handle form submissions?

**Assignment 10:**

- Develop the Process for file and directory handling in PHP.
- Illustrate at least five function names of file with their description.
- Illustrate Construct the steps for Uploading files.

**Assignment 11:**

- Illustrate few lines about Database with some feature
- Explain the steps or process to retrieve data from database in PHP
- Explain the steps or process to update data from database in PHP
- Explain a PHP program to insert record into a table using MySQL.
- Explain the process to create a table in MySQL
- Explain different types of function in Database

**Assignment 12:**

- What is Laravel, and what are its key features?
- What is Composer in PHP?
- Explain the purpose of the **composer.json** file.
- How do you define routes in Laravel?
- Explain the difference between GET and POST routes in Laravel.

**Assignment 13:**

- Explain the purpose of the composer create-project command in Laravel.
- How does Laravel handle database migrations?
- What is Blade in Laravel?
- How do you include a sub-view in Blade?

**Assignment 14:**

- What is Cross-Site Request Forgery (CSRF), and how do you prevent it in PHP?
- What is Eloquent in Laravel?
- Explain the concept of model relationships in Eloquent.
- How do you use Eloquent to retrieve records from a database?

**11. Extension and Follow-up Activities (if applicable)**

Not applicable

**12. Assessments**

Name of the Faculty: Gopal Paul

Designation and Department: Assistant Professor (Computational Sciences)

Brainware University, Kolkata

Program Name and Semester: MCA 2nd Semester  
Course Name (Course Code): PHP with Laravel(MCA293)

Class: MCA 2A  
Academic Session: 2023-24



As per the assessment and evaluation policy of University

**13. Suggested readings**

1. Learning PHP, MySQL & JavaScript, Robin Nixon, O'Reiley Press, 4th Edition, 2014.
2. Programming PHP: Creating Dynamic Web Pages, Kevin Tatroe, Peter MacIntyre, Rasmus Lerdorf, O'Reiley Press, 3rd Edition, 2012.
3. <https://laravel.com/>

**14. Assignment copy format:**

1. Write in A4 page; No channel file will be accepted.
2. Front page and Index page format will be provided by department
3. Following points must be included while writing assignment copy
  - a) Problem definition
  - b) Algorithm
  - c) Program in corresponding language
  - d) Output