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

Lab1.php

```
<?php
$number=1;
while($number <10)
{
    $div_count=0;

    for ($i=1;$i<=$number;$i++)
    {
        if(($number%$i)==0)
        {
            $div_count++;
        }
    }
    if($div_count<3)
    {
        echo $number." <br> ";
    }
    $number=$number+1;
}
?>
```

Output:

1
2
3
5
7

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

Lab2.html

```
<html>
<body>

    <form action = "Lab2.php" method = "GET">
        Student Name: <input type = "text" name = "sname" /> <br>
        Address: <input type = "text" name = "add" /> <br>
        <input type = "submit" />
    </form>

</body>
</html>
```

Lab2.php

```
<html>
<body>

    Welcome <?php echo $_GET["sname"]; ?> </br>
    Your address is: <?php echo $_GET["add"]; ?>

</body>
</html>
```

Output:

Student Name: [_____]
Address: [_____]
[Submit]

Welcome John
Your address is: New York

3. Write a PHP program to implement simple calculator operations.

```
<html>
<head>
  <title>Simple Calculator Program in PHP - Tutorials Class</title>
</head>

<?php
$first_num = $_POST['first_num'];
$second_num = $_POST['second_num'];
$operator = $_POST['operator'];
$result = '';
if (is_numeric($first_num) && is_numeric($second_num))
{
  switch ($operator)
  {
    case "Add":
      $result = $first_num + $second_num;
      break;
    case "Subtract":
      $result = $first_num - $second_num;
      break;
    case "Multiply":
      $result = $first_num * $second_num;
      break;
    case "Divide":
      $result = $first_num / $second_num;
  }
}

?>
<body>
  <div id="page-wrap">
    <h1>PHP - Simple Calculator Program</h1>
    <form action="" method="post" id="quiz-form">
      <p>
        <input type="number" name="first_num" id="first_num"
        required="required" value="<?php echo $first_num; ?>" /> <b>First
        Number</b>
      </p>
      <p>
```

```
<input type="number" name="second_num" id="second_num"
required="required" value="<?php echo $second_num; ?>" /> <b>Second
Number</b>
</p>
<p>
<input readonly="readonly" name="result" value="<?php echo $result; ?>">
<b>Result</b>
</p>
<input type="submit" name="operator" value="Add" />
<input type="submit" name="operator" value="Subtract" />
<input type="submit" name="operator" value="Multiply" />
<input type="submit" name="operator" value="Divide" />
</form>
</div>
</body>
</html>
```

Output:**PHP - Simple Calculator Program**

[] First Number
[] Second Number
[] Result

[Add] [Subtract] [Multiply] [Divide]

PHP - Simple Calculator Program

[10] First Number
[5] Second Number
[50] Result

[Add] [Subtract] [Multiply] [Divide]

4. Develop a PHP program to demonstrate String functions. (any 6).**Lab4.php**

```
<?php
$str = "welcome to BLDEA college vijayapur";
echo $str."<br>";
echo "Length of the string is: ". strlen($str)."<br>";
echo "Number of words in the string are: ". str_word_count($str)."<br>";
echo "Reverse: ". strrev($str)."<br>";
echo "Position of 'college' in string: ". strpos($str, 'college')."<br>";
$str = str_replace("vijayapur", "jamkhandi", "welcome to BLDEA college vijayapur");
echo "String replaced: ".$str."<br>";
echo "Capitalize each word first char : ".ucwords($str)."<br>";
echo "To Uppercase: ". strtoupper($str)."<br>";
echo "To Lowercase: ". strtolower($str)."<br>";
echo "Substring: ". substr($str, 11, 5)."<br>";
echo "Repeat String: ". str_repeat($str, 2);
?>
```

Output:

welcome to BLDEA college vijayapur

Length of the string is: 34

Number of words in the string are: 5

Reverse: rupayajiv egelloc AEDLB ot emoclew

Position of 'college' in string: 18

String replaced: welcome to BLDEA college jamkhandi

Capitalize each word first char : Welcome To BLDEA College Jamkhandi

To Uppercase: WELCOME TO BLDEA COLLEGE JAMKHANDI

To Lowercase: welcome to bldea college jamkhandi

Substring: BLDEA

Repeat String: welcome to BLDEA college jamkhandiwelcome to BLDEA college jamkhandi

5. 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.

Lab6.php

```
<?PHP
date_default_timezone_set("Asia/Kolkata");
$current_time = date('G');

if($current_time>=12 && $current_time<=16)
{
    echo "Good afternoon! ";
}
elseif($current_time >= 17 && $current_time <= 24)
{
    echo "Good evening! ";
}
elseif($current_time >= 1 && $current_time <= 5)
{
    echo "Working late? ";
}
elseif($current_time >= 6 && $current_time <= 11)
{
    echo "Good morning! ";
}
?>
```

Output:

Time (\$current_time)	Output
06 - 11	Good morning!
12 - 16	Good afternoon!
17 - 24	Good evening!
01 - 05	Working late?

6. 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)

Lab7.php

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

$x = 30;
$y = 40;
echo "GCD of $x and $y is: ".gcd($x,$y)."<br>";
$lcm = ($x*$y)/gcd($x,$y);
echo "LCM of $x and $y is: $lcm";
?>
```

Output:

GCD of 30 and 40 is: 10

LCM of 30 and 40 is: 120

7. Develop a PHP program to demonstrate constructors and destructors.**Lab8.php**

```
<?php
class Student
{
    private $fname;
    private $lname;

    public function __construct($fname, $lname)
    {
        echo "Initialising the object...<br/>";
        $this->fname = $fname;
        $this->lname = $lname;
    }

    public function __destruct()
    {
        echo "Destroying Object...";
    }

    public function showName()
    {
        echo "My name is: " . $this->fname . " " . $this->lname . "<br/>";
    }
}

$std = new Student("Chanakya", "Tubachi");
$std->showName();
?>
```

Output:**Initialising the object...****My name is: Chanakya Tubachi****Destroying Object...**

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

Lab9.html

```
<html>
  <head>
  </head>
  <body bgcolor="lightblue">
    <center>
      <table border="1">
        <caption>Insert Data Into Data Base</caption>
        <tr><form action="Ins.php" method="POST"></tr>
        <tr><td>Name :</td><td><input type="text"
        name="name"></td></tr>
        <tr><td>Address :</td><td><input type="text"
        name="add"></td></tr>
        <tr><td>Age :</td><td><input type="text"
        name="age"></td></tr>
        <tr><td></td>
        <tr><td></td><td align="center"><input type="submit"
        value="Insert"></td>
        </form></tr>
        <tr>
        <form action="Ser.php" method="POST">
        <tr><td>Name:</td><td><input type="text"
        name="name"></td></tr>
        <td><td></td>
        <td align="center">
        <input type="submit" name="" value="Search"></td>
        </form>
      </table>
    </center>
  </body>
</html>
```

Lab9insert.php

```
<?php
$servername="localhost";
$username="root";
$password="";
$dbname="student";
//Create connection
$conn = new mysqli($servername,$username,$password,$dbname);
//Check connection
if ($conn->connect_error)
{
    die("Connection failed:" . $conn->connect_error);
}
$name=$_POST["name"];
$sadd=$_POST["add"];
$age=$_POST["age"];
$sql="INSERT INTO std VALUES('','$sname','$sadd','$age')";
if ($conn->query($sql) === TRUE)
{
    echo "New record created successfully";
}
else
{
    echo "Error: " . $sql . "<br>" . $conn->error;
}
$conn->close();
?>
```

Lab9search.php

```

<?php
$servername="localhost";
$username="root";
$password="";
$dbname="student";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);

$name=$_POST["name"];
$res=mysqli_query($conn, "select * from std where sname= '$name' ");
if (mysqli_num_rows($res) === 0)
{
    echo "Records not found";
}
else
{
    while($arr=mysqli_fetch_row($res))
    {
        echo $arr[0]. " ";
        echo $arr[1]. " ";
        echo $arr[2]. " ";
        echo $arr[3]. " ";
    }
}
$conn->close();
?>

```

Output:

The screenshot shows a web form with a light blue background. At the top, it says "Insert Data Into Data Base". Below this, there are three input fields: "Name :" with the value "Rahul", "Address :" with the value "Dravid", and "Age :" with the value "50". To the right of the "Age" field is an "Insert" button. Below these fields, there is another "Name:" input field and a "Search" button.

4 Rahul Dravid 50