Bharathidasan University
Centre for Differently Abled Persons
Tiruchirappalli – 620024

Programme Name	Bachelor of Computer Applications
Course Code	20UCA6CP8
Course Title	PHP Lab
Semester	VI
Unit	I
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1. Program to find the factorial of a number
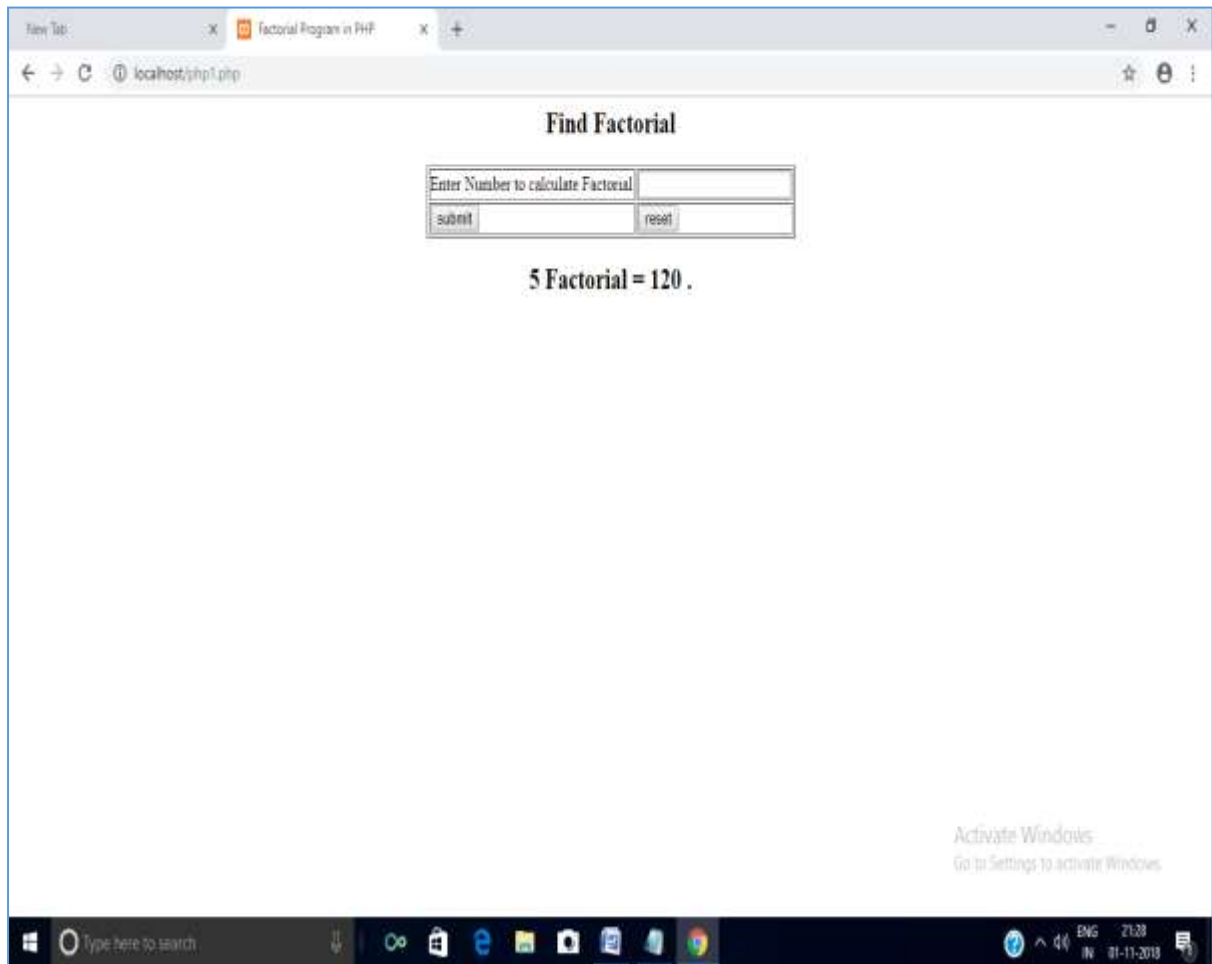
```
<html>
<body align="center">
<title>Factorial Program in PHP</title>
<form action="" method="post">
<h2> Find Factorial </h2>
<p align="center">
<table border=1>
<tr><td>Enter Number to calculate Factorial</td><td> <input type="text" name="number">
</td></tr>
<tr><td> <input type="submit" value="submit"></td><td><input type ="reset"
value="reset"></td></tr>
</table>
</form>


 <?php
      if($_POST)
      {
              $fact = 1;
              $number = $_POST['number'];
              for ($i = 1; $i <= $number; $i++)
              {
                      $fact = $fact * $i;
              }
                      print "<h2>$number Factorial = $fact .<h2><br>";
      }

?>

</body>
</html>
```

Output:

2. Program using Conditional Statement
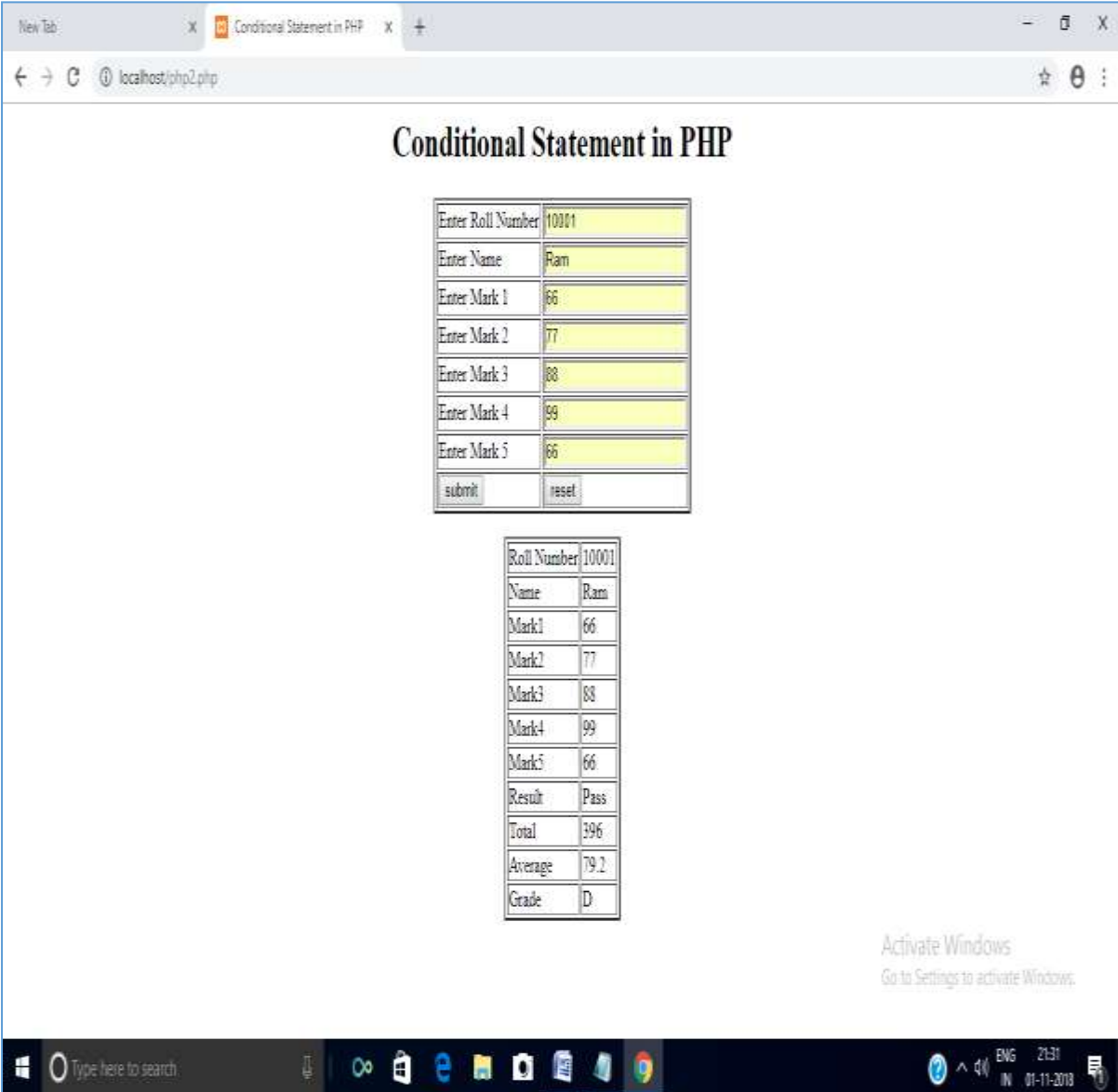
```
<html>
<body align = "center">
<title>Conditional Statement in  PHP</title>
<form action="" method="post">
<h1> Conditional Statement in  PHP </h1>
<p align = "center">
<table border=2>
<tr><td>Enter Roll Number </td> <td><input type="text" name="rno" >  </td> </tr>
<tr><td>Enter  Name</td> <td><input type="text" name="sname" > </td> </tr>
<tr><td>Enter Mark 1 </td> <td> <input type="text" name="m1" >  </td> </tr>
<tr><td>Enter Mark 2 </td> <td> <input type="text" name="m2" >  </td> </tr>
<tr><td>Enter Mark 3</td> <td> <input type="text" name="m3" > </td> </tr>
<tr><td>Enter Mark 4</td> <td> <input type="text" name="m4" >  </td> </tr>
<tr><td>Enter Mark 5 </td> <td> <input type="text" name="m5" >  </td> </tr>
<tr><td><input type="submit" value="submit"></td> <td> <input type="reset" value="reset">
</td> </tr>
</table>
</form>
</body>
</html>

<?php
        if($_POST)
        {
                $rno1 = $_POST['rno'];
                $sname = $_POST['sname'];
                $m1 = $_POST['m1'];
                $m2 = $_POST['m2'];
                $m3 = $_POST['m3'];
                $m4 = $_POST['m4'];
                $m5 = $_POST['m5'];
                if ( ( $m1 >=40) && ( $m2 >=40) && ( $m3 >=40) && ( $m4 >=40) && ( $m5 >=40) )
                {
                     $res="Pass";
                     $tot =  $m1 + $m2 + $m3 + $m4 + $m5;
                     $average = $tot/5.0;
                      if  ( $average >=75)
                         $grade = "A";
                      else if  (( $average <=74)  && ($average >= 60) )
                         $grade = "B";
                      else if  (( $average <=59)  && ($average >= 50) )
                         $grade = "C";
                      else
                         $grade="D";
                }
```

```php
        else
        {
            $res="Fail";
        }
        echo "<p align =center>";
        echo " <table border=2> ";
        echo "<tr><td>Roll Number </td> <td> $rno1  </td> </tr> ";
        echo "<tr><td>Name </td> <td> $sname </td> </tr> ";
        echo "<tr><td>Mark1 </td> <td> $m1  </td> </tr> ";
        echo "<tr><td>Mark2 </td> <td> $m2  </td> </tr> ";
        echo "<tr><td>Mark3 </td> <td> $m3  </td> </tr> ";
        echo "<tr><td>Mark4 </td> <td> $m4  </td> </tr> ";
        echo "<tr><td>Mark5 </td> <td> $m5  </td> </tr> ";
        if ($res == "Pass")
        {
            echo "<tr><td>Result  </td> <td> $res  </td> </tr> ";
            echo "<tr><td>Total     </td> <td> $tot  </td> </tr> ";
            echo "<tr><td>Average </td> <td> $average  </td> </tr> ";
            echo "<tr><td>Grade  </td> <td> $grade  </td> </tr> ";
        }
        else
        {
            echo "<tr><td>Result  </td> <td> $res  </td> </tr> ";
        }

    }
    echo " </table> ";
?>
```

Output:

3. Program to find the maximum value in a given multi-dimensional array

```php
<html>
<body align="center">
<?php
 $a = array
 (
        array(121,212,189),
        array(515,150,153),
        array(525,531,242),
 );
 echo  "<font size=6>  Given Matrix <br><br>  ";
 for($i=0;$i<3;$i++)
 {
    echo "<br>";
    for($j=0;$j<3;$j++)
    {
        echo    $a[$i][$j] . "           ";
    }
 }
 $max = $a[0][0];
 for ($i = 0; $i < 3; $i++)
 {
   for ($j = 0; $j < 3; $j++)
   {
    if ($max < $a[$i][$j])
        $max = $a[$i][$j];
   }
 }
 echo "<br><br><br><br>Max Value of Given Matrix  : $max";
?>
</body>
</html>
```

Output:

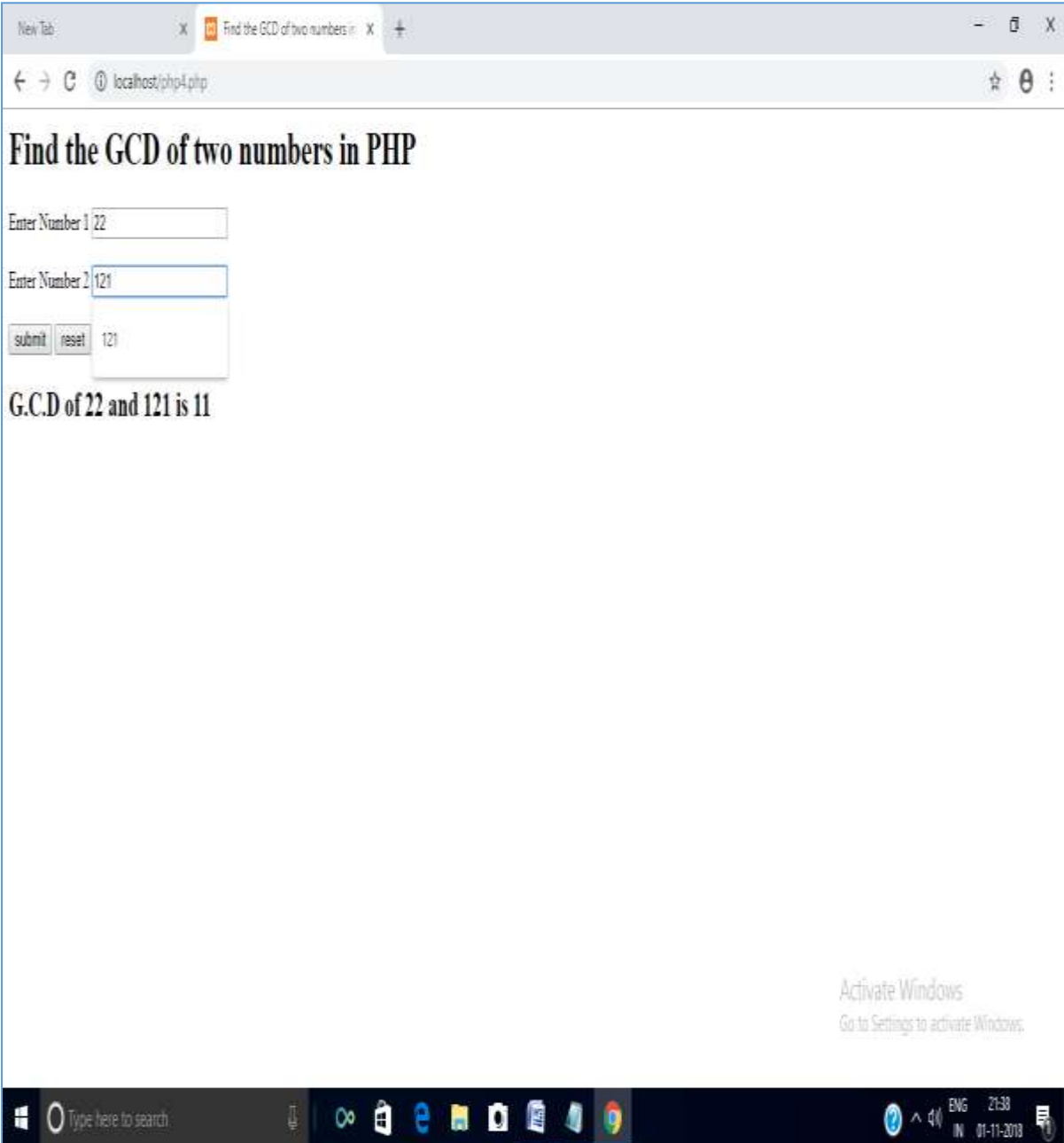## 4. Program to find the GCD of two numbers using user-defined function

```
<html>
<body>
<title>Find the GCD of two numbers in PHP</title>
<form action="" method="post">
<h1> Find the GCD of two numbers in PHP </h1>
Enter  Number 1     <input type="text" name="n1" > <br> <br>
Enter  Number  2    <input type="text" name="n2" > <br><br>
<input type="submit" value="submit">
<input type="reset" value="reset">
</form>
</body>
</html>

<?php
      if($_POST)
      {
              $n1 = $_POST['n1'];
              $n2 = $_POST['n2'];
              $gcd = FindGcd($n1,$n2);
              echo "<h2>G.C.D of  $n1  and $n2 is $gcd";
      }
      function FindGcd($n1,$n2)
      {
        for($i=1; ($i <= $n1) && ($i <= $n2); $i++)
        {
              if( ($n1%$i==0) && ($n2%$i) ==0)
                      $gcd = $i;
        }
         return ($gcd);
      }

?>
```

Output:

5. Design a simple web page to generate multiplication table for a given number

```html
<html>
<body>
<title> Design a simple web page to generate multiplication table for a given number. </title>
<form action="" method="post">
<h1> Generate Multiplication table in PHP </h1>
Enter  Number       <input type="text" name="n1" > <br> <br>
<input type="submit" value="submit">
<input type="reset" value="reset">
</form>
</body>
</html>

<?php
      if($_POST)
      {
            $n1 = $_POST['n1'];
            echo '<p align="center">';
            echo '<table border=1 width = "10%">';
            for($i=1;  $i <= 16; $i++)
            {
                  $mul = $i * $n1;
                  echo "<tr><td> <font size=4>$i </td> <td><font size=4>  *
                  </td><td><font size=4>  $n1</td><td><font size=4> =</td><td><font
                  size=4> $mul</td></tr>" ;
            }
            echo "</table></font>";
      }

 ?>
```

Output:

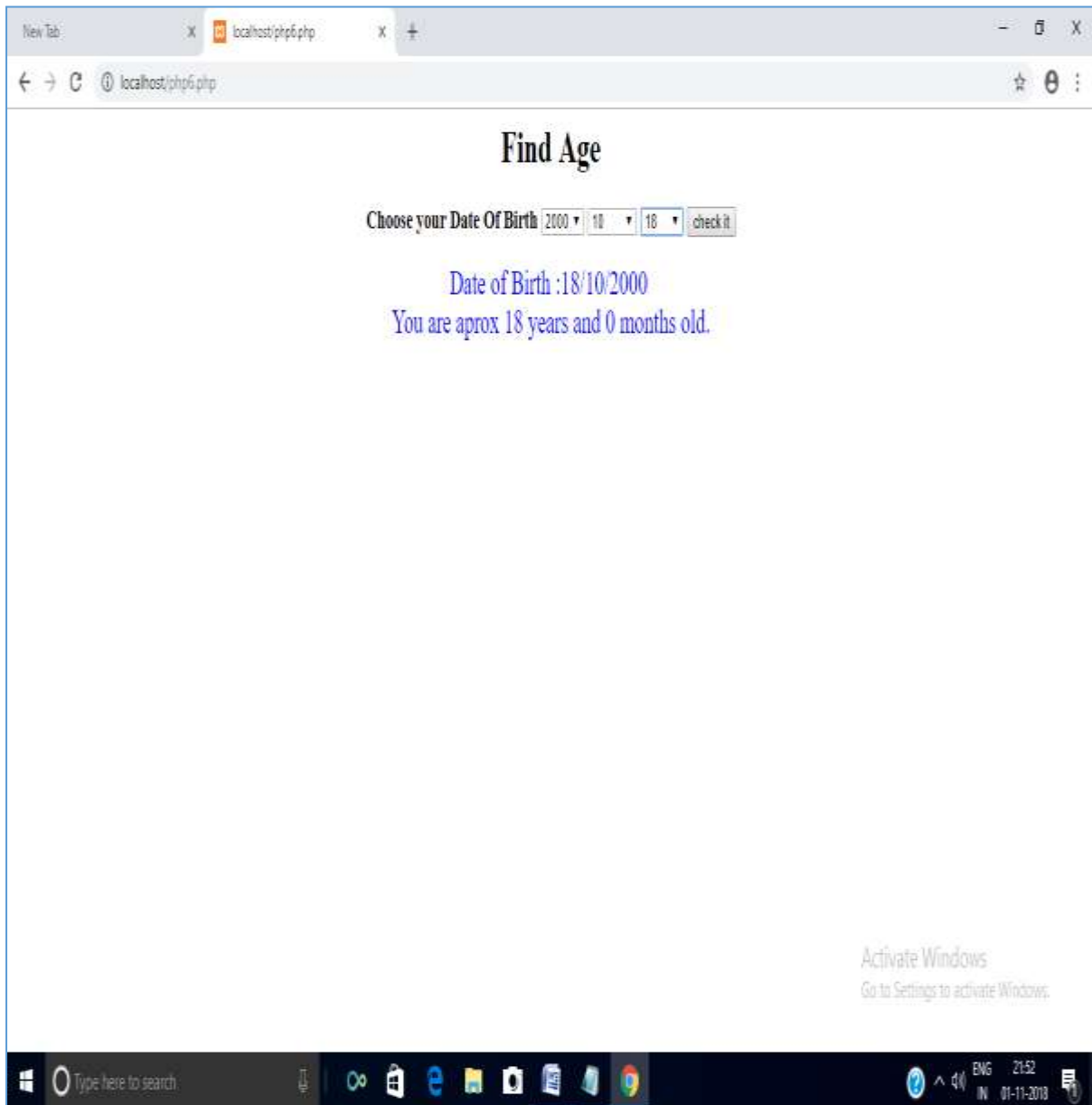## 6. Program to print the Fibonacci Series

```
<html>
<body bgcolor=pink>
<form method=post action=fibonacci.php>
Enter a number:<input type=text name=a>
<br><input type=submit value=show>
</form>
</body>
</html>

<?php
        $n=$_POST["a"];
        $a=0;
        $b=1;
        echo $a;
        echo"<br>".$b;
        for($i=1;$i<$n-2;$i++)
        {
                $c=$a+$b;
                echo"<br>".$c;
                $a=$b;
                $b=$c;
        }
?>
```
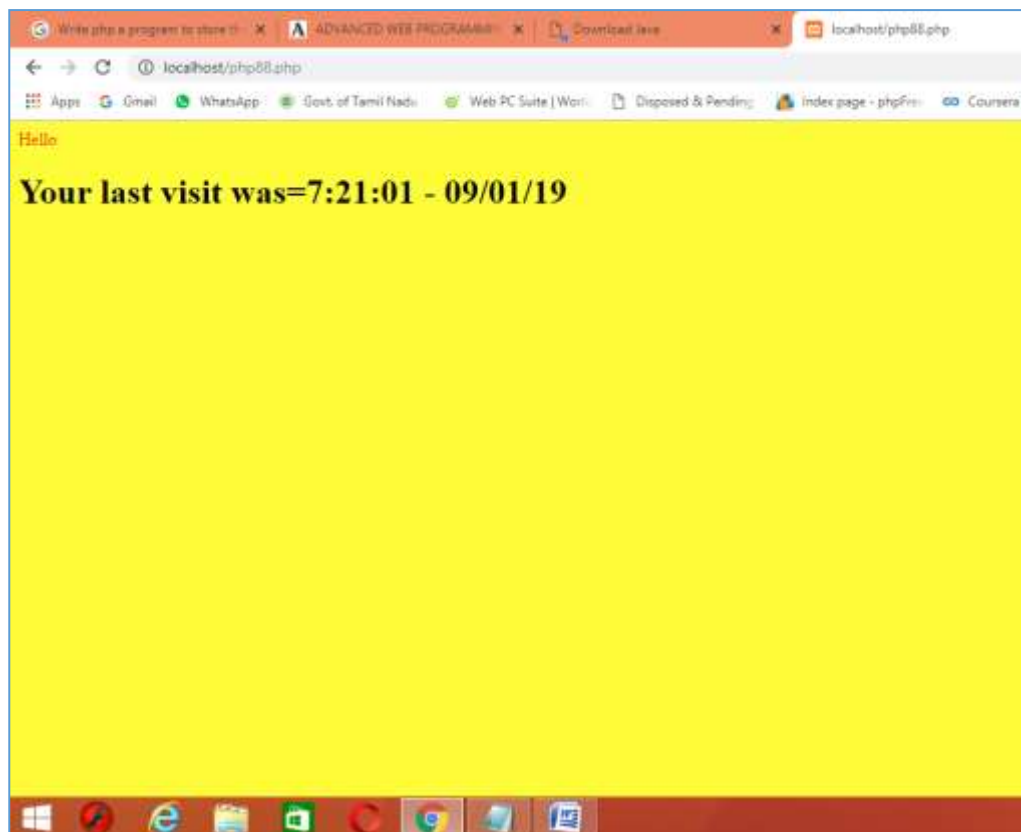
Output:

7. Program to find the Page Visitor details using Cookies

```php
<?php
      $sec30=60*60*24*30+time();
      setcookie('lastVisit',date("g:i:s - d/m/y"),$sec30);
?>

<html>
<body bgcolor="yellow"> <p style="color:red">
Hello
<?php
      $visit =$_COOKIE['lastVisit'];
      If (isset($_COOKIE['lastVisit']))
              echo "<h1>Your last visit was=".$visit;
      else
              echo "<h1>You've got some stale cookies!";
 ?>
</p>
</body>
</html>
```
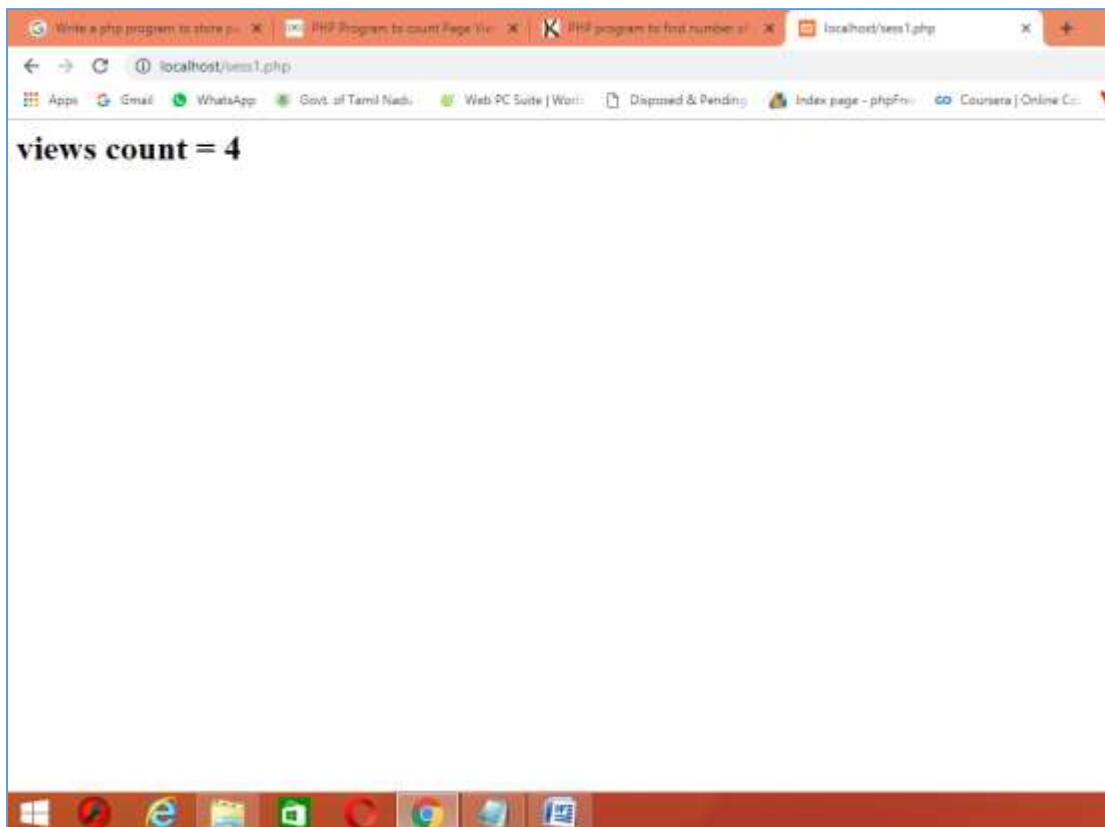
Output:

8. Program to store page views count in SESSION

```php
<?php

session_start();
if (isset($_SESSION['views']))
        $_SESSION['views'] = $_SESSION['views']+1;
else
        $_SESSION['views']=1;
echo" <h1>views count = ".$_SESSION['views'];

?>
```

Output:

9. Program to design a simple calculator

```html
<html>
<head>
<title>Calculator</title>
</head>
<body>
<center>
<h1> Simple Calcluator
<form method="POST" >
<p align="center"><b>Enter the first number :</b><br/>
<input type="text" name="num1" size="20"><br>
</p>
<p align="center"><select name = "function">
<option name="calc" value = "add">Add [+]</option>
<option name="calc" value = "subtract">Subtract[-]</option>
<option name="calc" value = "multiply">Multiple[*]</option>
<option name="calc" value = "divide">Divide[/]</option>
</select></p>
<p align="center"><b>Enter the second number : </b><br/>
<input type="text" name="num2"   size="20"></p>
<p align="center"><input type="submit" value="Calculate" name="calculate"></p>
</form>
</body>
</html>


<?php
      if($_POST)
      {
            $num1 = $_POST['num1'];
            $num2 =$_POST['num2'];
            $s =$_POST['function'];
            if ($s  == "add")
                  $result =$num1 + $num2;
            if ($s  == "subtract")
                  $result =$num1 - $num2;
            if ($s  == "multiply")
                  $result =$num1 * $num2;
            if ($s  == "divide")
                  $result =$num1 / $num2;
            echo  "<h1> Value 1 : $num1  <br><br>  Value 2: $num2 <br><br> Output ($s)  :
            $result   </h1>";
      }
?>
```
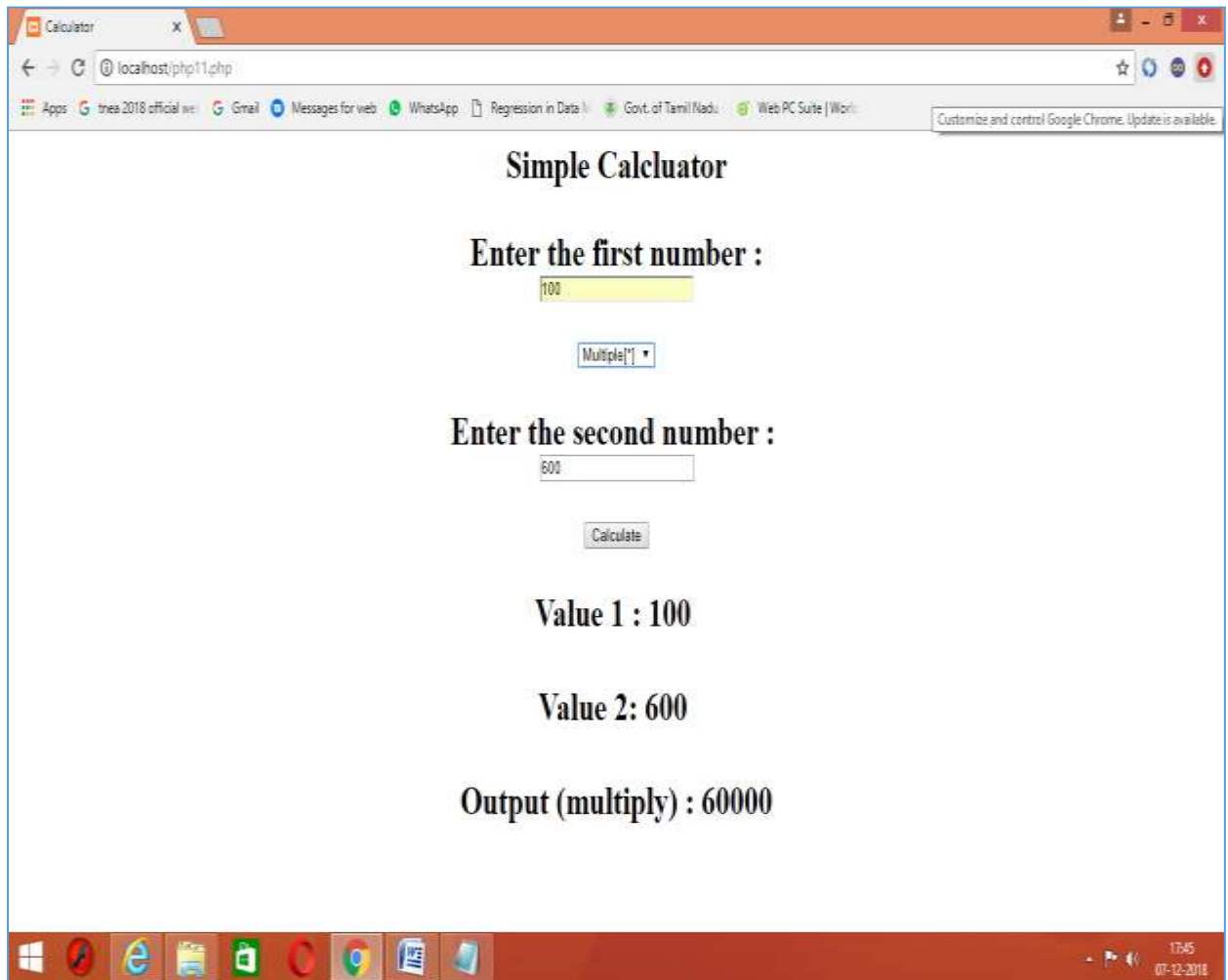
Output:

10. Design an authentication web page in PHP with MySQL

```
<html>
<body align = "center">
<title>Login Page</title>
<form action="" method="post">
<center>
<h2> To check User Name and  Password </h2>
<table border=2>
<tr><td>User Name </td> <td><input type="text" name="uname" >  </td> </tr>
<tr><td>Password</td> <td><input type="password" name="pwd" > </td> </tr>
<tr><td><input type="submit" value="submit"></td> <td>
<input type="reset" value="reset"> </td> </tr>
</table>
</form>
</body>
</html>

<?php
        if($_POST)
        {
                $uname = $_POST['uname'];
                $pwd  = $_POST['pwd'];
                mysql_connect("localhost","root","") or die("Connection Error");
                mysql_select_db("udc") or die("Database Error");
                $s= "select * from stud where username = " . "'".$uname."' and password ="."'". $pwd."'";
                $sel=mysql_query($s) or die("Table Error");
                $flag =0;
                while($ro=mysql_fetch_array($sel))
                {
                    $flag=1;
                    $sname= $ro['studname'];
                }
                if ($flag == 1)
                {
                    echo "<h2>Welcome $sname ";
                    echo "<h3> Congrats !!  You have Successfully Logged in<h3>";
                }
                else
                    echo " <h2>Error Username and password- Try again";

        }

?>
```

Output: