

Terna Engineering College
Computer Engineering Department

Program: Sem V

Course: Web Technology Laboratory (CSL504)

Faculty: Mrs Reshma Koli

LAB Manual

PART A

(PART A: TO BE REFERRED BY STUDENTS)

Experiment No.07

A.1 Aim:

Design HTML form to accept two numbers N1 and N2 and using PHP display only prime numbers between N1 and N2.

A.2 Prerequisite:

- Knowledge of PHP.
- Web Browser, Web Server (PHP, MySql), Notepad.
- Installation of XAMPP or WAMP Server.

A.3 Outcome:

After successful completion of this experiment students will be able to Evaluate client and server side technologies and create Interactive web pages using PHP with database connectivity using MySQL (XAMPP/WAMPP).

A.4 Theory:

➤ What is PHP:

- PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.
- It is a server scripting language, and is a powerful tool for making dynamic and interactive Web pages quickly.

➤ PHP files:

- PHP files can contain text, HTML, CSS, JavaScript, and PHP code.
- PHP code are executed on the server, and the result is returned to the browser as plain HTML.
- PHP files have extension ".php".

➤ Why PHP?

- runs on various platforms (Windows, Linux, Unix, Mac OS X, etc.)
- compatible with almost all servers used today (Apache, IIS, etc.)
- supports a wide range of databases.
- free. Download it from the official PHP resource: www.php.net
- easy to learn and runs efficiently on the server side.

➤ What Can PHP Do?

- generate dynamic page content.
- create, open, read, write, delete, and close files on the server.
- send and receive cookies.
- add, delete, modify data in your database.
- restrict users to access some pages on your website.
- encrypt data.

➤ PHP Syntax:

- The PHP script is executed on the server, and the plain HTML result is sent back to the browser.
- A PHP script can be placed anywhere in the document.
- A PHP script starts with: `<?php` and ends with `?>`:

Example:

```
<?php
```

```
// PHP code goes here
```

```
?>
```

The default file extension for PHP files is ".php".

A PHP file normally contains HTML tags, and some PHP scripting code.

Example:

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>My first PHP page</h1>
```

```
<?php
```

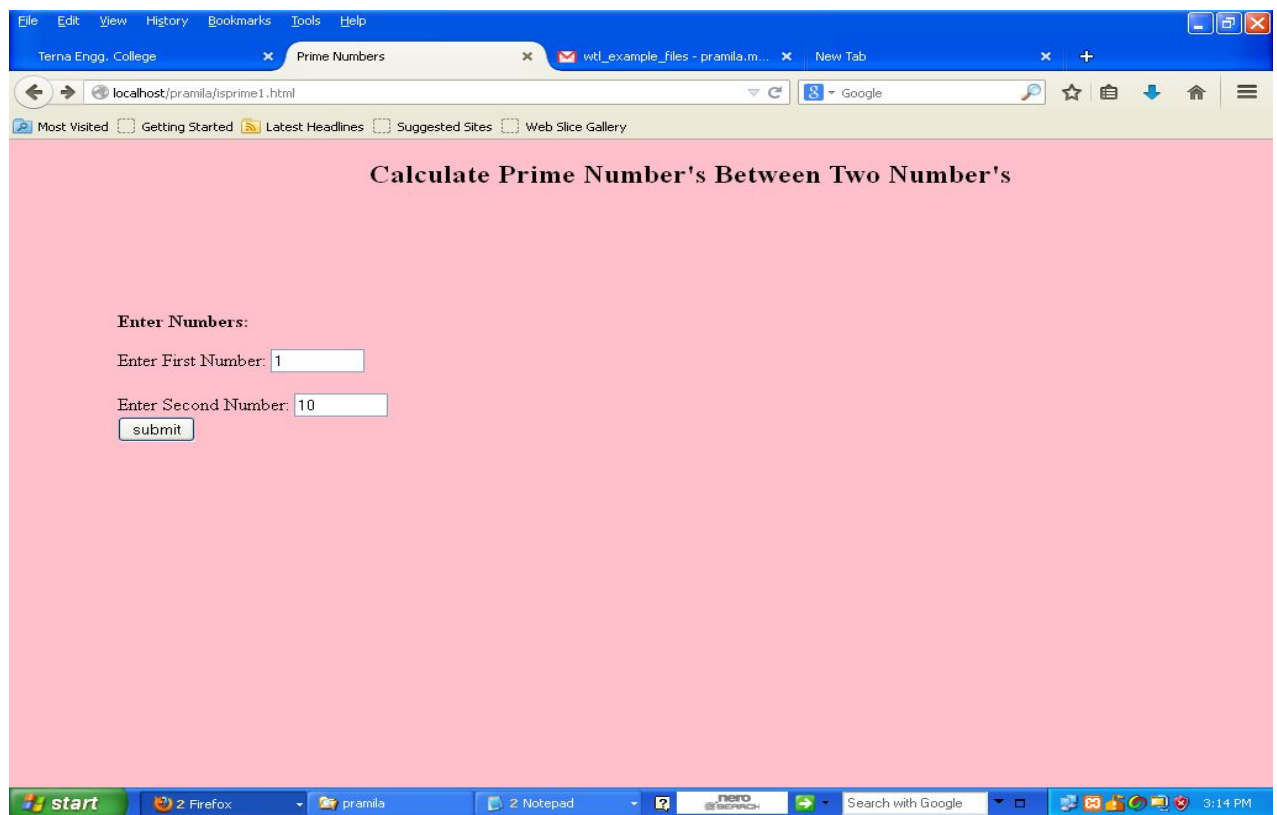
```
echo "Hello World!";
```

```
?>
```

```
</body>
```

```
</html>
```

Example: check prime numbers between two numbers.



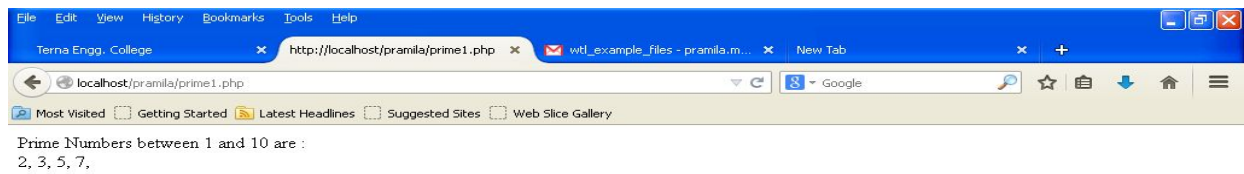
Source Code:

➤ Isprime.html

```
<html>

    <head><ul style= color:white;>
    <title>Prime Numbers</title>
    </head>
    <body bgcolor="pink">
    <ul style=color:Black;>
    <center><h2> Calculate Prime Number's Between Two Number's
</h2></center>
<br></br>
<br></br>

        <p><B> Enter Numbers:</B>
<form action="prime.php" method="post">
Enter First Number:
<input type = 'text' name= 'number1' size= '8'><br></br>
.....
.....
</form>
</body>
</html>
```



➤ Prime.php

```
<?php
$start = $_POST['number1'];
$end = $_POST['number2'];
echo "Prime Numbers between $start and $end are : <br>" ;
for($i = $start; $i<= $end; $i++)
{
.....
}

Function is_prime($number)
{
.....
.....
}
?>
```

PART B

(PART B: TO BE COMPLETED BY STUDENTS)

(Students must submit the soft copy as per following segments within two hours of the practical. The soft copy must be uploaded on the Blackboard or emailed to the concerned lab in charge faculties at the end of the practical in case there is no Blackboard access available)

Roll No. 50	Name: Amey Thakur
Class: TE-Comps B	Batch: B3
Date of Experiment: 04/09/2020	Date of Submission: 04/09/2020
Grade :	

B.1 Web page Snapshot:

(Add all snapshots of output.)

- Prime Number Identifier

The screenshot shows a web browser window with the address bar displaying 'localhost/Filly/index.php'. The page has a light blue background. At the top, there is a dark blue header bar with white text containing student details: Name (Amey Thakur), College (Terna Engineering College), Department (Computer Engineering), Class (Third Year), Division (B), and Roll Number (50). Below the header, the text 'Web Designing Laboratory Experiment - 7' is displayed in blue, followed by 'PRIME NUMBERS IDENTIFIER' in red. The main content area features a dark blue rounded rectangle with a white border. Inside this rectangle, the word 'SEARCH' is in blue, and 'PRIME NUMBERS' is in red. There are two input fields: 'First Integer' with the placeholder 'Enter First Number' and 'Last Integer' with the placeholder 'Enter Last Number'. At the bottom of the rectangle are two buttons: 'RESET' and 'FIND', both with red text on a white background. At the very bottom of the page, the text 'Amey Thakur B-50' is displayed in red.

- Finder (1-50)

Amey B-50

localhost/Filly/index.php

Name	College	Department	Class	Division	Roll Number
Amey Thakur	Terna Engineering College	Computer Engineering	Third Year	B	50

Web Designing Laboratory Experiment - 7

PRIME NUMBERS IDENTIFIER

SEARCH

PRIME NUMBERS

First Integer

1

Last Integer

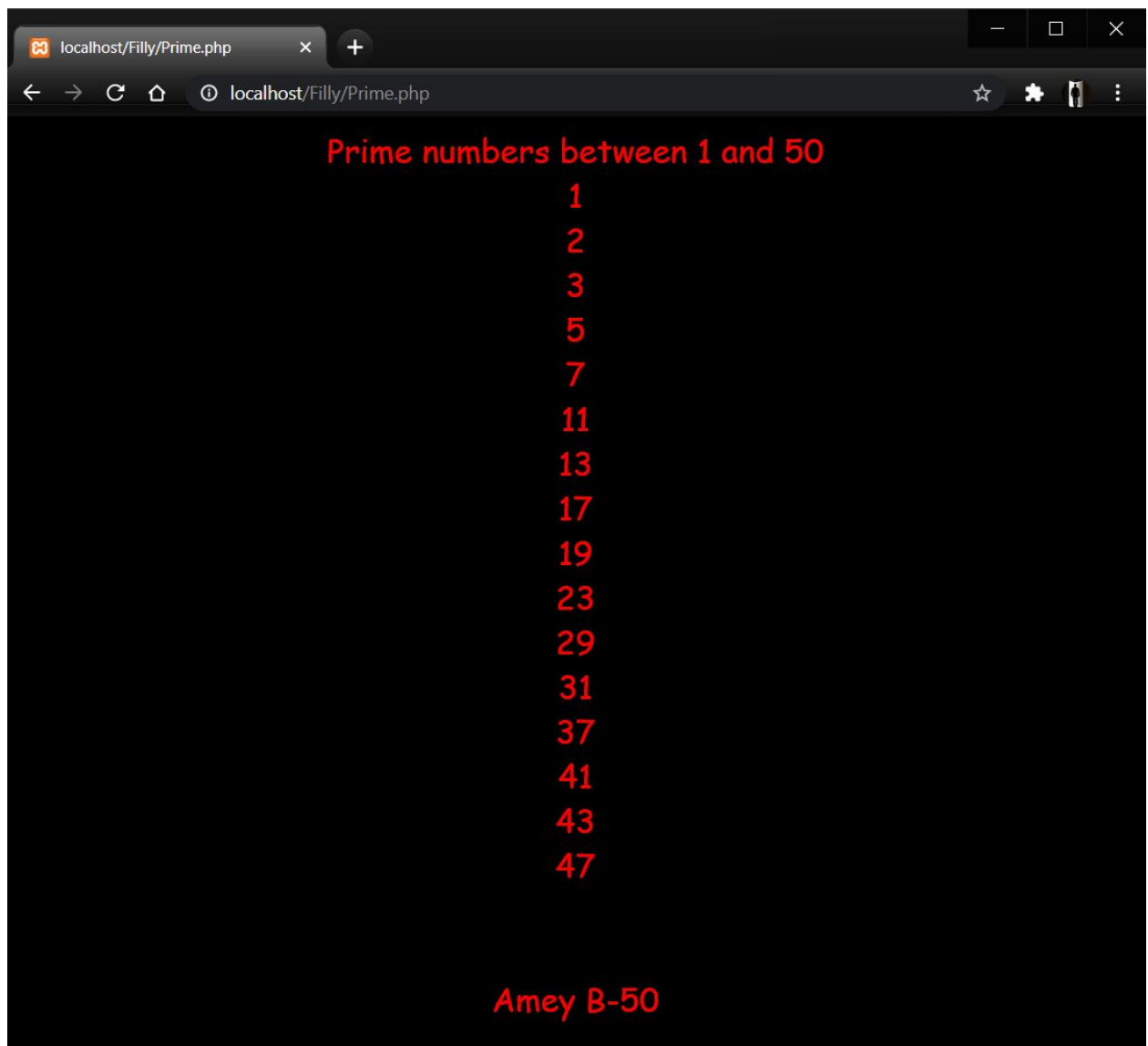
50

RESET

FIND

Amey Thakur B-50

- Findings (1-50)



B.2 Web page source code:

(Add source code of web pages)

- **Index.php**

```
<DOCTYPE html>
<html lang="en" dir="ltr">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width">
    <meta name="description" content="Prime Numbers">
    <meta name="keywords" content="Prime Numbers">
    <meta name="author" content="Amey Thakur">
    <title>Amey B-50</title>
    <link rel="stylesheet" href="./css/style.css">
  </head>

  <body><br>
    <aside id="sidebar">
      <p>
        <table border="0" bgcolor="#000000" align="center" cellspacing="20">
          <tr style="color:#000dff">
            <th>Name</th>
            <th>College</th>
            <th>Department</th>
            <th>Class</th>
            <th>Division</th>
            <th>Roll Number</th>
          </tr>
          <tr style="color:#ff0000">
            <td>Amey Thakur</td>
            <td>Terna Engineering College</td>
            <td>Computer Engineering</td>
            <td>Third Year</td>
            <td>B</td>
            <td>50</td>
          </tr>
        </table>
      </p>
    </aside>

    <center>
      <p style="color:#000dff">Web Designing Laboratory Experiment - 7</p>
      <p style="color:#ff0000">PRIME NUMBERS IDENTIFIER</p>
    </center>
```



```
<form name="Filly" action="Prime.php" onsubmit="return ValidationForm()"
method="post" class="docs">
<table border="0" bgcolor="#000000" align="center" cellspacing= "40">
  <tr style="color:#000dff">
    <th align="right">SEARCH</th>
    <th align="left">PRIME NUMBERS</th>
  </tr>

<div>
  <tr>
    <td>First Integer</td>
    <td><input type="number" placeholder="Enter First Number" size="10" id="fn"
name="fn" required></td>
  </tr>
</div>

<div>
  <tr>
    <td>Last Integer</td>
    <td><input type="number" placeholder="Enter Last Number" size="10" id="ln"
name="ln" required></td>
  </tr>
</div>

<div>
  <tr>
    <td colspan="2" align="center">
      <input type="reset" value="RESET" name="reset" id="button"
style="color:#ff0000">

      &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp; &nbsp;

      <input type="submit" value="FIND" name="submit" id=""="button"
style="color:#ff0000"></td>
  </tr>
</div>

</table>
</form>

<footer>
  <center><p style="color:#f70000">Amey Thakur B-50</p></center>
</footer>

</body>
</html>
```

- **Prime.php**

```
<style>
div{
    font-family: Cursive;
    font-size: 25px;
    color: RED;
}
</style>

<?php

    echo "<body style='background-color: Black'>";

    $n1=$_POST['fn'];
    $n2=$_POST['ln'];

    echo"<div align='center'>";
    echo"Prime numbers between $n1 and $n2";
    echo "<br />";

    for($i=$n1;$i<=$n2;$i++)
    {
        if($i==2 || $i==3 || $i==5 || $i==7)
        {
            echo" $i";
            echo "<br />";
        }
        else if(($i%2)!=0 && ($i%3)!=0 && ($i%5)!=0 && ($i%7)!=0)
        {
            echo" $i";
            echo "<br />";
        }
        else
            continue;
    }

    echo "<br />";
    echo "<br />";
    echo"Amey B-50";
    echo"</div>";

?>
```

- **Style.css**

```
table{
  color: #ffffff;
  border-radius: 20px;
}

body{
  font: 15px/1.5 cursive;
  padding:0;
  margin:0;
  background-color:aqua;
}

button{
  height:38px;
  background:#263dd4;
  border:0;
  padding-left: 20px;
  padding-right:20px;
  color:#000dff;
}
```

B.3 Conclusion:

From this experiment, we have understood to -

- Embedding PHP in HTML.
- Design HTML form to accept two numbers N1 and N2 and using PHP display only prime numbers between N1 and N2.

B.4 Question of Curiosity:

1. Write features of PHP.

Ans:

Features of php -

- PHP is the most popular and frequently used world wide scripting language, the main reason of popularity is; It is open source and very simple.
 - Simple
 - Faster
 - Interpreted
 - Open Source
 - Case Sensitive
 - Simplicity
 - Efficiency
 - Platform Independent
 - Security
 - Flexibility
 - Familiarity
 - Error Reporting
 - Loosely Typed Language
 - Real-Time Access Monitoring

2. How to embed PHP file into HTML file.

Ans:

- Embedding PHP in HTML. You embed PHP code into a standard HTML page.
- For example, here's how you can dynamically generate the title of an HTML document:

```
<html><head><title><?echo $title?></title>
</head>...
```
- The <?echo \$title?> portion of the document is replaced by the contents of the \$title PHP variable. echo is a basic language statement that you can use to output data.