Apache, Lamp, PHP Installation

Step 1: Install Apache and Allow in Firewall

sudo apt-get update

sudo apt-get install apache2

Step 2: Install MySQL

sudo apt-get install mysql-server

Step 3: Install PHP

sudo apt-get install php libapache2-mod-php php-mcrypt php-mysql

Program No.6

Write a PHP program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings.

PHP Script

```php
<?php
$file = 'count.txt';
$count = strval(file_get_contents($file));
file_put_contents($file, $count + 1);
echo("You are visitor number:".$count);
?>
```
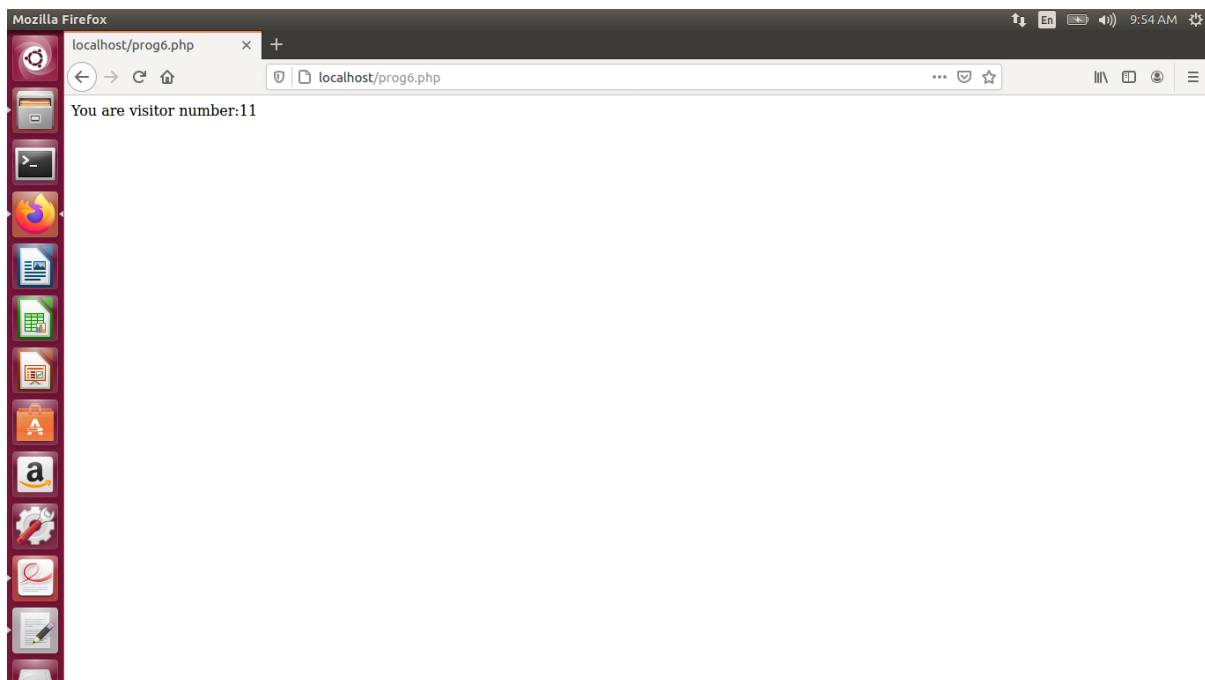
Steps for PHP Execution

1. vi prog6.php
2. Type the program
3. Save Program in vi editor Esc->**Shift** + **:** ->wq
4. Press Y for Yes to Program Save
5. Run the program in Web Browser localhost/prog6.php

Output

Program No.7

Write a PHP program to display a digital clock which displays the current time of the server.

PHP Script

```
<html>
<head>

<script type="text/javascript">
function startTime()
{
var d= new Date();
var h= d.getHours();
var m= d.getMinutes();
var s= d.getSeconds();
document.getElementById("txt").innerHTML= h+" : "+m+" : "+s;
setTimeout('startTime()', 1000);
}
</script>

<style type="text/css">
h1
{
  font-size: 70px;
}
</style>
</head>

<body bgcolor = "#349" text="white" onload="startTime()">
<br>
<h1 align= "center"> The time from the local system is:
```

```
<span id= "txt"></span>

</h1>

</body>

</html>



</br>

</br>

</br>

</br>



<?php

$today = date("H:i:s");

?>



<!DOCTYPE html>

<html>

<body>

<h1>

<?php echo "The time from the server is " . date("h:i:sa");?>

</h1>

</body>

</html>
```
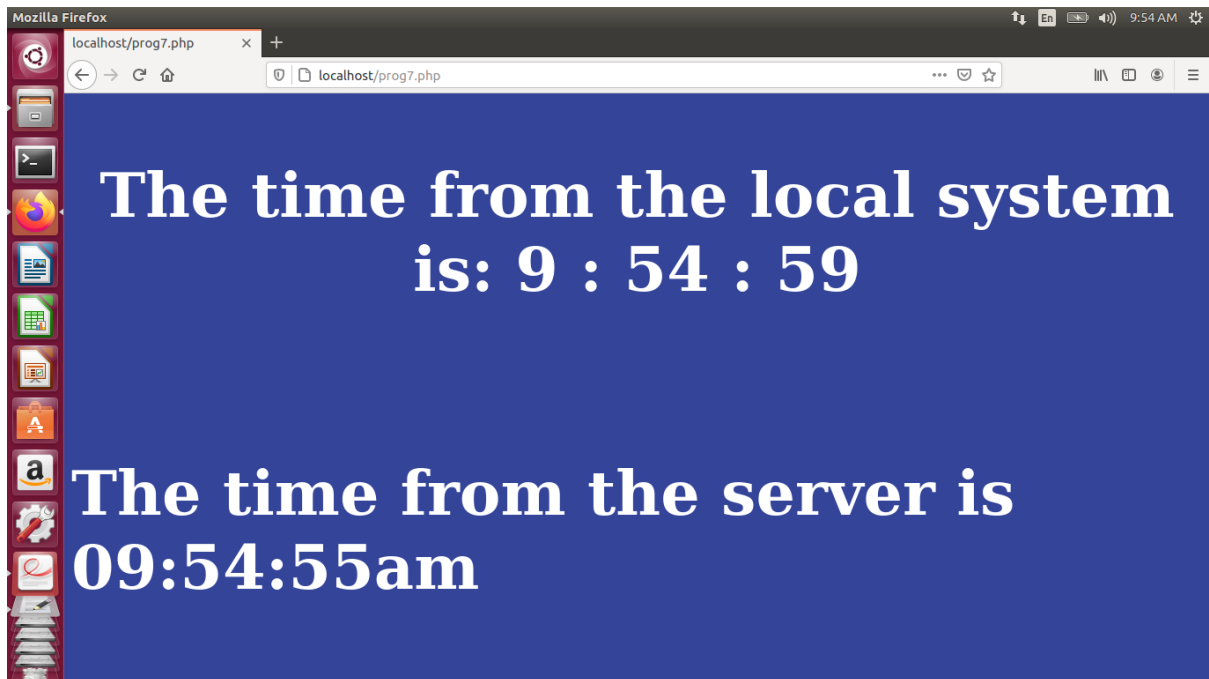
Steps for PHP Execution

1. vi prog7.php
2. Type the program
3. Save Program in vi editor Esc->**Shift** + **:** ->wq
4. Press Y for Yes to Program Save
5. Run the program in Web Browser localhost/prog7.php

Output

Program No.8

Write the PHP Programs to do the following

a) Implement simple calculator operations.

PHP Script

```php
<?php
if(isset($_POST['sub']))
{
$txt1=$_POST['n1'];
$txt2=$_POST['n2'];
$oprnd=$_POST['sub'];
if($oprnd=="+")
$res=$txt1+$txt2;
else if($oprnd=="-")
$res=$txt1-$txt2;
else if($oprnd=="x")
$res=$txt1*$txt2;
else if($oprnd=="/")
$res=$txt1/$txt2;
}
?>
<html>
<form method="post" action="">
Calculator
</br>
No1:<input name="n1" value="<?php echo $txt1; ?>" >
</br>
No2:<input name="n2" value="<?php echo $txt2; ?>">
</br>
Res:<input name="res" value="<?php echo $res; ?>">
```
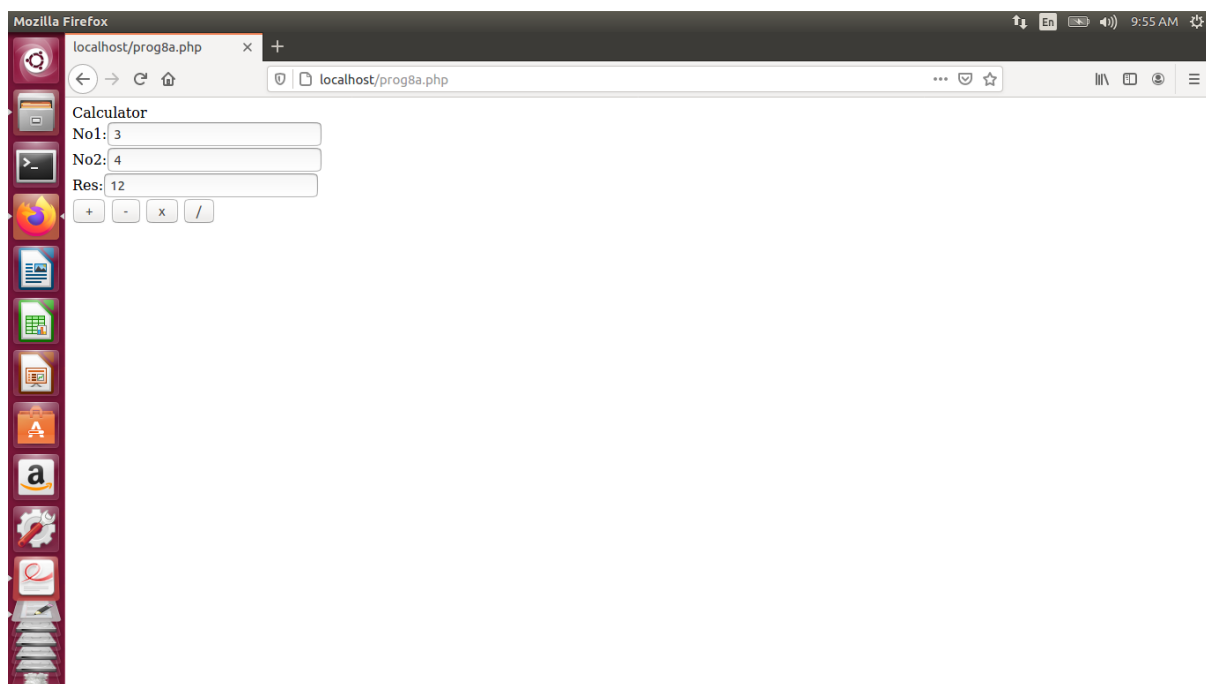
</br>

<input type="submit" name="sub" value="+">

<input type="submit" name="sub" value="-">

<input type="submit" name="sub" value="x">

<input type="submit" name="sub" value="/">

</form>

</html>

Steps for PHP Execution

1. vi prog8a.php
2. Type the program
3. Save Program in vi editor Esc->**Shift** + **:** ->wq
4. Press Y for Yes to Program Save
5. Run the program in Web Browser localhost/prog8a.php

Output

Program No.8

Write the PHP Programs to do the following

b) Transpose of a matrix & c) Addition of matrix and multiplication of two matrices.

PHP Script

```php
<?php
header('Content-Type: text/plain');
$matrix1 = array(
array(1, 2),
array(4, 5),
);

$matrix2 = array(
array(1, 2),
array(4, 5),
);

echo "\n\n\n";
echo "The order of the matrix A is:" .count($matrix1)."x".count($matrix1[0]);
echo "\n";
echo "The order of the matrix B is:" .count($matrix1)."x".count($matrix2[0]);
echo "\n";

$rowCount= count($matrix1);
$colCount = count($matrix1[0]);

echo "The input matrix A is:\n";
for($r=0; $r<$rowCount; $r++)
{
        for($c=0; $c < $colCount; $c++)
```

```php
        {
                echo $matrix1[$r][$c]." \t";

        }
        echo "\n";

}

echo "The input matrix B is:\n";

for($r=0; $r<$rowCount; $r++)

{
        for($c=0; $c < $colCount; $c++)

        {
                echo $matrix1[$r][$c]." \t";

        }
        echo "\n";

}

echo "\nThe output Transpose of matrix is:\n";


for($r=0; $c < $colCount; $r++)

{
        for($c=0; $c < $rowCount; $c++)

        {
                echo $matrix1[$c][$r]." \t";

        }
        echo "\n";

}


$rowCount= count($matrix1);

$colCount = count($matrix1[0]);

$rowCount2 = count($matrix2);
```

```php
$colCount2 = count($matrix2[0]);

echo "\nThe sum of matrix is:\n";

for($r = 0; $r < $rowCount; $r++)
{
        for($c=0; $c < $colCount; $c++)
        {
                $val= $matrix1[$r][$c] + $matrix2[$r][$c];
                echo $val."\t";
        }
        echo "\n";
}

$rowCount= count($matrix1);
$colCount = count($matrix1[0]);
$rowCount2 = count($matrix2);
$colCount2 = count($matrix2[0]);

echo "\nThe Multiplication of matrix is:\n";

if($colCount == $rowCount2)
{
        for($r=0; $r < $rowCount; $r++)
        {
                for($c=0; $c < $colCount; $c++)
                {
                        $val= $matrix1[$r][$c] * $matrix2[$r][$c];
                        echo $val."\t";
                }
```

```
        echo "\n";


    }

}

else

{

        echo "The matrix multiplication is not possible.";

}

?>
```
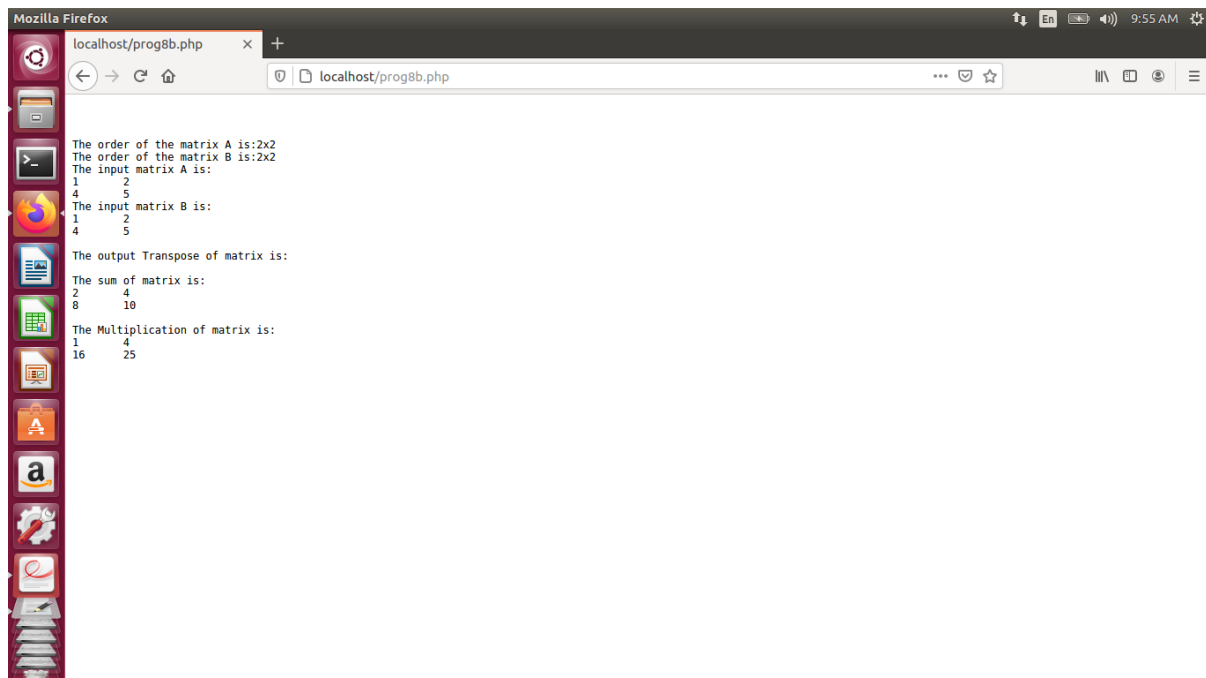
Steps for PHP Execution

1. vi prog8b.php
2. Type the program
3. Save Program in vi editor Esc->**Shift** + **:** ->wq
4. Press Y for Yes to Program Save
5. Run the program in Web Browser localhost/prog8b.php

Output

Program No.9

Write a PHP program named states.py that declares a variable states with the value "Mississippi Alabama Texas Massachusetts Kansas". Write a php program that does the following:

   a. Search for a word in variable states that ends in xas. Store this word in element 0 of a list named statesList.
   b. Search for a word in states that begins with k and ends in s. Perform a case insensitive comparison. [Note: Passing re.Ias s second parameter to method compile performs a case-insensitive comparison.]Store this word in element 1 of statesList.
   c. Search for a word in states that begins with M and ends in s. Store this element in 2 of the list.
   d. Search for a word in states that ends in a. Store this word in element 3 of the list.

PHP Script

```
<?php

header('Content-Type: text/plain');

$allTheStates = "Mississippi Alabama Texas Massachusetts Kansas tuxas";

$statesArray = [];

$states1 = explode(' ',$allTheStates);

$i = 0;

//states that ends in xas

foreach($states1 as $state) {

if(preg_match( '/xas$/', ($state)))

{

$statesArray[$i] = ($state);

$i = $i + 1;

print "\nThe States that ends in xas:" . $state;

}

}

//states that begins with k and ends in s

foreach($states1 as $state)

{

if(preg_match('/^k.*s$/i', ($state)))
```

```php
{ $statesArray[$i] = ($state);

$i = $i + 1;

echo "\nThe states that begins with k ans ends in s:" . $state;

}

}

//states that begins with M and ends in s

foreach($states1 as $state) {

if(preg_match('/^M.*s$/', ($state)))

{

$statesArray[$i] = ($state);

$i = $i + 1;

echo "\nThe states that begins with M and ends in s:" . $state;

}

}

//states that ends in a

foreach($states1 as $state) {

if(preg_match('/a$/', ($state)))

{

$statesArray[$i] = ($state);

$i = $i + 1;

echo "\nThe states that ends in a:" . $state;

}

}

//}

foreach( $statesArray as $element => $value ){

print( "\n" . $value." is the element ". $element);

}

?>
```

Steps for PHP Execution

1. vi prog9.php
2. Type the program

3. Save Program in vi editor Esc->**Shift** + **:** ->wq
4. Press Y for Yes to Program Save
5. Run the program in Web Browser localhost/prog9.php

Output