**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.**

<html>

<head>

<title>Web Page Counter</title>

</head>

<body bgcolor="yellow" text="blue">

<?php $my\_file = "count.txt";

$handle = fopen($my\_file, "r");

$count = fgets($handle);

$count=$count+1;

$handle = fopen($my\_file, 'w') or die('Cannot open file: '.$my\_file); fwrite($handle, $count);

echo "This page has been viewed $count times"; ?>

</body>

</html>

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

<?php date\_default\_timezone\_set('UTC'); ?>

<script>

var d = new Date(<?php echo time() \* 1000 ?>); function digitalClock()

{

d.setTime(d.getTime() + 1000); var hrs = d.getHours();

var mins = d.getMinutes(); var secs = d.getSeconds();

mins = (mins < 10 ? "0" : "") + mins;

secs = (secs < 10 ? "0" : "") + secs;

var apm = (hrs < 12) ? "am" : "pm"; hrs = (hrs > 12) ? hrs - 12 : hrs;

hrs = (hrs == 0) ? 12 : hrs;

var ctime = hrs + ":" + mins + ":" + secs + " " + apm; document.getElementById("clock").firstChild.nodeValue = ctime;

}

window.onload = function()

{

digitalClock(); setInterval('digitalClock()', 1000);

}

</script>

<div id="clock"> </div>

**Write the PHP programs to do the following: a. Implement simple calculator operations. b. Find the transpose of a matrix. c. Multiplication of two matrices. d. Addition of two matrices.**

**Program 8a:**

<?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;

}

?>

<form method="post" action="">

Calculator

<br>

Enter First Number :<input name="n1" value="<?php echo $txt1; ?>">

<br>

Enter Second Number :<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>

<?php

function transpose($data)

{

$transData = array();

foreach ($data as $row => $arr)

{

foreach ($arr as $col => $val)

{

$transData[$col][$row] = $val;

}

}

display($transData);

}

function mul($a,$b)

{

$c = array();

for($i=0;$i<count($a);$i++)

{

for($j=0;$j<count($b);$j++)

{

$c[$i][$j]=0;

for($k=0;$k<count($a);$k++)

{

$c[$i][$j]=$c[$i][$j]+($a[$i][$k]\*$b[$k][$j]);

}

}

}

display($c);

}

function add($a,$b)

{

$c = array();

for($i=0; $i<count($a); $i++)

{

for($j=0; $j<count($b); $j++)

{

$c[$i][$j] = $a[$i][$j] + $b[$i][$j];

}

}

display($c);

}

function display($data)

{

foreach ($data as $value)

{

for($i=0;$i<count($value);$i++)

{

echo $value[$i]."\t";

}

echo "<br>";

}

}

$a = array( array(1,2,3), array(4,5,6), array(7,8,9), );

$b = array( array(1,2,3), array(4,5,6), array(7,8,9), ); echo "Matrix 1 <br>";

display($a);

echo "Matrix 2 <br>"; display($b);

echo "Transpose of Matrix 1<br>"; transpose($a);

echo "Transpose of Matrix 2<br>"; transpose($b);

echo "Multiplication of two matrices<br>"; mul($a,$b);

echo "Addition of two matrices<br>"; add($a,$b); ?>

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

1. **Search for a word in variable states that ends in xas. Store this word in element 0 of a list named statesList.**
2. **Search for a word in states that begins with k and ends in s. Perform a case insensitive comparison. [Note: Passing re.Ias a second parameter to method compile performs a case - insensitive comparison.] Store this word in element1 of statesList.**
3. **Search for a word in states that begins with M and ends in s. Store this word in element 2 of the list.**
4. **Search for a word in states that ends in a. Store this word in element 3 of the list.**

<?php

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

$allTheStates = "Mississippi Alabama Texas Massachusetts Kansas";

$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)))

{

$statesArray[$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);

}

?>

**Write a PHP program to sort the student records which are stored in the database using selection sort.**

<?php

function selectionSort($array)

{

$length = count($array);

for ($j = 0; $j < $length-1; $j++)

{

$iMin = $j;

for ($i = $j+1; $i < $length; $i++)

{

if ($array[$i] < $array[$iMin])

{

$iMin = $i;

}

}

if ($iMin != $j)

{ // swap

$temp = $array[$j];

$array[$j] = $array[$iMin];

$array[$iMin] = $temp;

}

}

return $array;

}

$servername = "localhost";

$username = "root";

$password = "root";

// Create connection

$conn = new mysqli($servername, $username, $password);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " .$conn->connect\_error);

}

// Check connection

if (mysqli\_connect\_errno())

{

echo "Failed to connect to MySQL: " . mysqli\_connect\_error();

}

// Perform queries

mysqli\_select\_db($conn,'lsr');

$sql="SELECT \* FROM student";

$result=mysqli\_query($conn,$sql) or die("No such user: " . mysqli\_error($conn));

/\* if (mysqli\_num\_rows($result) == 0)

{

echo "No matching records!!!!";

} \*/

$i=0;

while($row=mysqli\_fetch\_row($result))

{

$n[$i] = $row[0];

$usn[$i] = $row[1];

$add[$i] = $row[2];

$email[$i] = $row[3];

$i = $i+1;

}

$a = selectionSort($n);

echo "<table border>

<th> Name </th>

<th> USN </th>

<th> address </th>

<th> Email </th>";

for ($j = 0; $j < count($a); $j++)

{

for ($k = 0; $k < count($a); $k++)

{

if($a[$j] == $n[$k])

{

echo "<tr><td>$n[$k]</td>

<td>$usn[$k]</td>

<td>$add[$k]</td>

<td>$email[$k]</td></tr>";

}

}

}

echo"</table>"; ?>

$conn->close();

?>