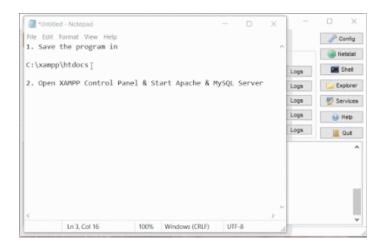
- 7. 1. If xampp is in the system, save the program in C:\tanpp\htdocs (start apache in xampp control panel)
- 2. If no xampp in the system, save the program in C:\Program Files\Apache Group\Apache2\htdocs & Open Google Chrome & type http://localhost/prog7.php

prog7.php

```
<head>
<meta http-equiv="refresh" content="1"/>
  <style>
  p {
    color:yellow;
    font-size:90px;
    position:absolute;
    top: 40%;
    left: 50%;
    transform: translate(-50%, -50%);
  }
  body {
    background-color:maroon;
  }
  </style>
   <?php echo date(" h: i : s A");?> 
  </head>
```

STEPS



OUTPUT



8. 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.

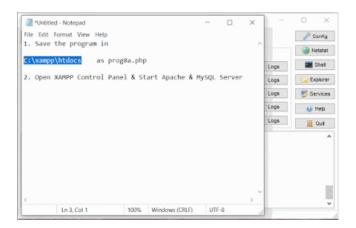
If xampp is in the system, save the program in C:\xampp\htdocs (start apache in xampp control panel)

If no xampp in the system, save the program in C:\Program Files\Apache Group\Apache2\htdocs & Open Google Chrome & type http://localhost/prog8a.php

prog8a.php

```
<html>
<head>
<style>
table, td, th {
 border: 1px solid black;
 width: 35%;
 text-align: center;
 background-color: lightgray;
table { margin: auto; }
input,p { text-align:right; }
</style>
</head>
<body>
<form method="post" action="prog8a.php">
<caption><h2> SIMPLE CALCULATOR </h2></caption>
 First Number:mame="num1" />
 <button type="submit" name="submit" value="calculate">Calculate
 Second Number:input type="text" name="num2"/>
</form>
if(isset($ POST['submit'])) // it checks if the input submit is filled
n1 = POST['num1'];
 num2 = POST['num2'];
 if(is_numeric($num1) and is_numeric($num2))
 echo " Addition :".($num1+$num2)."";
 echo " Subtraction : ".($num1-$num2)."";
 echo " Multiplication :".($num1*$num2)."";
 echo "Division : ".($num1/$num2)."";
 echo "";
}
else
{
 echo"<script> alert(' ENTER VALID NUMBER');</script>";
}
}
?>
</body>
</html>
```

STEPS



OUTPUT

SIMPLE CALCULATOR

First Number:	21 Calculate	
Second Number:	07	
Addition :	28	
Subtraction :	14	
Multiplication :	147	
Division :	3	

8b.SOLUTION 1

Requires XAMPP control panel for Solution 1

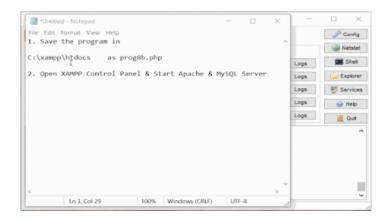
If xampp is in the system, save the program in C:\xampp\htdocs (start apache in xampp control panel) & Open Google Chrome & type http://localhost/prog8b.php

prog8b.php

```
<!DOCTYPE html>
<html>
<body>
<?php
 function pr($a){
 foreach ($a as $b) {
  foreach ($b as $c) {
  echo $c ." ";
  }echo "<br>";
 }echo "<br>";
 a = [[1,2,3],[4,5,6],[7,8,9]];
 b = [[7,8,9],[4,5,6],[1,2,3]];
 echo "<b>First Matrix : </b><br>"; pr($a);
 echo "<b>Second Matrix : </b><br>"; pr($b);
 for (\$i=0; \$i < 3; \$i++)
 for ($j=0; $j < 3; $j++)
  c[i][j] = a[j][i];
 echo "<b>Transpose Of First Matrix : </b><br>"; pr($c);
```

```
for ($i=0; $i < 3; $i++)
 for ($j=0; $j < 3; $j++)
  c[i][j] = a[i][j] + b[i][j];
 echo "<b>Addition Of Two Matrix : </b><br/>
"; pr($c);
 for (\$i=0; \$i < 3; \$i++)
 for ($j=0; $j < 3; $j++){
  c[i][j] = 0;
  for ($k=0; $k < 3; $k++)
  c[i][j] += a[i][k] * b[k][j];
 echo "<b>Multiplication Of Two Matrix : </b><br/>-"; pr($c);
 ?>
</body>
</html>
```

STEPS



OUTPUT

First Matrix:

123

456

789

Second Matrix:

789

456

123

Transpose Of First Matrix:

147

258

369

Addition Of Two Matrix:

8 10 12

8 10 12

8 10 12

Multiplication Of Two Matrix:

18 24 30

54 69 84

90 114 138

SOLUTION 2

prog8b.php

```
<?php
a = array(array(1,2,3),array(4,5,6),array(7,8,9));
b = array(array(7,8,9),array(4,5,6),array(1,2,3));
$m=count($a);
$n=count($a[2]);
$p=count($b);
q=count(b[2])
echo "the first matrix:"."<br/>";
for (\text{$row = 0; $row < $m; $row++}) 
for (\$col = 0; \$col < \$n; \$col++)
echo " ".$a[$row][$col];
echo "<br/>";
}
echo "the second matrix:"."<br/>";
for (\text{snow} = 0; \text{snow} < \text{p}; \text{snow} + +) {
for (\$col = 0; \$col < \$q; \$col++)
echo " ".$b[$row][$col];
echo "<br/>";
echo "the transpose for the first matrix
is:"."<br/>"; for ($row = 0; $row < $m; $row++) {
for (\$col = 0; \$col < \$n; \$col++)
echo " ".$a[$col][$row];
echo "<br/>";
if(($m===$p) and ($n===$q)) {
echo "the addition of matrices is:"."<br/>";
for ($row = 0; $row < 3; $row++) {
for (\$col = 0; \$col < 3; \$col++)
echo " ".$a[$row][$col]+$b[$row][$col]."
"; echo "<br/>";
}
if(n===p){
echo " The multiplication of matrices: <br/> ";
$result=array();
for (\$i=0; \$i < \$m; \$i++) 
for(\$j=0; \$j < \$q; \$j++){
\text{sesult}[\$i][\$i] = 0;
for(k=0; k< n; k++)
$result[$i][$j] += $a[$i][$k] * $b[$k][$j];
}
for (\text{$row = 0; $row < $m; $row++}) 
for (\$col = 0; \$col < \$q; \$col++)
echo " ".$result[$row][$col];
echo "<br/>";
}
}
?>
OUTPUT:
the first matrix:
123
456
789
the second matrix:
789
456
123
```

```
the transpose of the first matrix: 1 4 7 2 5 8 3 6 9 the addition of matrices is: 8 10 12 8 10 12 the multiplication of matrices: 18 24 30 54 69 84 90 114 138
```

09. WRITE A PHP PROGRAM NAMED STATES.PY THAT DECLARES A VARIABLE STATES WITH 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 CASEINSENSITIVE COMPARISON. [NOTE: PASSING RE.IAS A SECOND PARAMETER TO METHOD COMPILE PERFORMS A CASEINSENSITIVE COMPARISON.] STORE THIS WORD IN ELEMENT1 OF STATESLIST.
- **C.** SEARCH FOR A WORD IN STATES THAT BEGINS WITH M AND ENDS IN S. STORE THIS WORD IN ELEMENT 2 OF THE LIST.
- **D.** SEARCH FOR A WORD IN STATES THAT ENDS IN A. STORE THIS WORD IN ELEMENT 3 OF THE LIST.

SOLUTION 1

- 1. If xampp is in the system, save the program in C:\xampp\htdocs (start apache in xampp control panel)
- 2. If no xampp in the system, save the program in C:\Program Files\Apache |
 Group\Apache2\Inttotacs & Open Google Chrome & type http://localhost/prog9.php

prog9.php

```
<html>
<body>
</php
$states = "Mississippi Alabama Texas Massachusetts Kansas";
$b = explode(' ',$states);
echo "<br/>or>ORIGINAL ARRAY :<br/>foreach ($b as $i => $value)
echo "states[$i] = $value<br/>foreach ($b as $c)
{
    $n = strlen($c);
    if($c[$n-1]=='s' && $c[$n-2]=='a' && $c[$n-3]=='x') $d[0] = $c;
    if($c[0]=='K' && $c[$n-1]=='s') $d[1] = $c;
    if($c[0]=='M' && $c[$n-1]=='s') $d[2] = $c;
```

```
if($c[$n-1]=='a') $d[3] = $c;
}
echo "<br>RESULTANT ARRAY :<br>";
for ($i=0; $i < count($d); $i++)
echo "statesList[$i] = $d[$i]<br>";
?>
</body>
</html>
```

STEPS



OUTPUT

```
ORIGINAL ARRAY:
states[0] = Mississippi
states[1] = Alabama
states[2] = Texas
states[3] = Massachusetts
states[4] = Kansas

RESULTANT ARRAY:
statesList[0] = Texas
statesList[1] = Kansas
statesList[2] = Massachusetts
statesList[3] = Alabama
```

SOLUTION 2

prog9.php

```
<?php
$states = "Mississippi Alabama Texas
Massachusetts Kansas"; $statesArray = [];
$states1 = explode(' ',$states);
echo "Original Array :<br/>";
foreach ( $states1 as $i => $value )
print("STATES[$i]=$value<br/>br>");
foreach($states1 as $state) {
   if(preg_match( '/xas$/', ($state)))
   $statesArray[0] = ($state);
}
foreach($states1 as $state) {
```

```
if(preg_match('/^k.*s$/i', ($state)))
$statesArray[1] = ($state);
}
foreach($states1 as $state) {
   if(preg_match('/^M.*s$/', ($state)))
   $statesArray[2] = ($state);
}
foreach($states1 as $state){
   if(preg_match('/a$/', ($state)))
   $statesArray[3] = ($state);
}
echo "<br/>br>Resultant Array :<br/>foreach ($statesArray as $array => $value )
   print("STATES[$array]=$value<br/>br>");
?>
```

OUTPUT

Original Array: STATES[0]=Mississippi STATES[1]=Alabama STATES[2]=Texas STATES[3]=Massachusetts STATES[4]=Kansas

Resultant Array: STATES[0]=Texas STATES[1]=Kansas STATES[2]=Massachusetts STATES[3]=Alabama

9 .Program ver 2

STEPS TO EXECUTE PHP PROGRAM

- 1. Copy the php code given below
- 2. Save it with **.php** file name extension
- 3. Place the file in the **htdocs of XAAMP**
- 4. Start the XAAMP control panel
- 5. Start Apache server
- 6. Click on admin in XAMPP Control pale
- 7. Replace the url dashboard name with your php file name
- 8. Execution completed

Solution prog9.php

```
<html>
<body>
<?php

$states = "Mississippi Alabama Texas Massachusetts Kansas";

$b = explode(' ',$states);

echo "<br>>ORIGINAL ARRAY :<br>";
```

WEB TECHNOLOGY – Output

```
ORIGINAL ARRAY:
states[0] = Mississippi
states[1] = Alabama
states[2] = Texas
states[3] = Massachusetts
states[4] = Kansas

RESULTANT ARRAY:
statesList[0] = Texas
statesList[1] = Kansas
statesList[2] = Massachusetts
statesList[3] = Alabama
```

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

```
<?php
$domain = "localhost";
$username = "root";
$password = "";
$dbname = "weblab";
a = [];
$conn = mysqli_connect($domain, $username, $password, $dbname);
if ($conn->connect_error)
   die("Connection failed: " . $conn->connect_error);
$sql = "SELECT * FROM student";
$result = $conn->query($sql);
echo "<br>";
echo "<h2>BEFORE SORTING</h2>";
echo "";
echo "";
echo "USNNameAddress";
if ($result->num_rows > 0) {
   while ($row = $result->fetch_assoc()) {
       echo "";
       echo "" . $row["usn"] . "";
       echo "" . $row["name"] . "";
       echo "" . $row["address"] . "";
       array_push($a, $row["usn"]);
} else
   echo "Table is Empty";
echo "";
$n = count($a);
for (\$i = 0; \$i < (\$n - 1); \$i++) {
   pos = i;
   for (\$j = \$i + 1; \$j < \$n; \$j++) {
       if ($a[$pos] > $a[$j])
           pos = j;
   }
   if ($pos != $i) {
       $temp = $a[$i];
       a[$i] = a[$pos];
       $a[$pos] = $temp;
   }
}
c = [];
d = [];
$result = $conn->query($sql);
if ($result->num_rows > 0) {
   while ($row = $result->fetch_assoc()) {
       for (\$i = 0; \$i < \$n; \$i++) {
```

```
if ($row["usn"] == $a[$i]) {
            $c[$i] = $row["name"];
            $d[$i] = $row["address"];
         }
      }
   }
}
echo "<br>";
echo "<h2>AFTER SORTING</h2>";
echo "";
echo "";
echo "USNNAMEAddress";
for ($i = 0; $i < $n; $i++) {
   echo "";
   echo "" . $a[$i] . "";
  echo "" . $c[$i] . "";
   echo "" . $d[$i] . "";
echo "";
$conn->close();
?>
</body>
</html>
```

9.