

```

<!-------program 1 ----->

<html>

<head>
  <script>
    function calc(clkd_id) {
      var val1 = parseInt(document.getElementById("value1").value);
      var val2 = parseInt(document.getElementById("value2").value);

      if (isNaN(val1) || isNaN(val2))

        alert("Enter valid number");

      else if (clkd_id == "add")
        document.getElementById("answer").value = val1 + val2;
      else if (clkd_id == "sub")
        document.getElementById("answer").value = val1 - val2;

      else if (clkd_id == "mul")
        document.getElementById("answer").value = val1 * val2;

      else if (clkd_id == "div")
        document.getElementById("answer").value = val1 / val2;

    }

    function cls() {
      value1.value = "0";
      value2.value = "0";
      answer.value = " ";
    }
  </script>
</head>

<body>
  <table>
    <tr>
      <th colspan="5">SIMPLE CALCULATOR </th>
    </tr>
    <tr>
      <td> value1</td>
      <td> <input type="text" id="value1" value=""></td>
      <td> value2</td>
      <td> <input type="text" id="value2" value=""></td>
    </tr>
    <tr>
      <td><input type="button" id="add" value="Addition" onclick="calc(this.id)"></td>
      <td><input type="button" id="sub" value="Subtraction" onclick="calc(this.id)"></td>
      <td><input type="button" id="mul" value="Multiplication" onclick="calc(this.id)"></td>
      <td><input type="button" id="div" value="Division" onclick="calc(this.id)"></td>
    </tr>
    <tr>
      <td> Answer</td>
      <td> <input type="text" id="answer" disabled></td>
      <td><input type="button" id="clear" value="Clear All" onclick="cls()"></td>
    </tr>
  </table>
</body>

</html>

```

```
<!-------program 2----->

<html>

<head>

    <title>Lab Program-2</title>

</head>

<body>

    <center>

        <h3>Program for Square and Cube</h3>

        <script type="text/javascript">

            document.write("<table
border='1'><tr><th>Number</th><th>Square</th><th>Cube</th></tr>");

            for (var i = 1; i < 11; i++) {
                document.write("<tr><td>" + i + "</td><td>" + i * i + "</td><td>" + i * i * i
+ "</td></tr>");
            }
            document.write("</table>");

        </script>

    </center>

</body>

</html>
```

```
<!-------program 3----->

<!DOCTYPE HTML>
<html>

<body>
<p id="demo"></p>
<script>
    var var1 = setInterval(inTimer, 1000);
    var fs = 5;
    var ids = document.getElementById("demo");
    function inTimer() {
        ids.innerHTML = 'TEXT GROWING';
        ids.setAttribute('style', "font-size: " + fs + "px;color:red");
        fs += 5;
        if (fs >= 50) {

            clearInterval(var1);
            var2 = setInterval(deTimer, 1000);
        }
    }
    function deTimer() {
        fs -= 5;
        ids.innerHTML = 'TEXT SHRINKING';
        ids.setAttribute('style', "font-size: " + fs + "px; color:blue");
        if (fs === 5) {
            clearInterval(var2);
        }
    }
}
</script>
</body>

</html>
```

```

<!-------program 4----->

<!DOCTYPE html>
<html lang="en">

<head>
    <title>Lab Program-4</title>
    <meta charset="utf-8">
    <script type="text/javascript">
        function validate() {
            var inp = document.getElementById('val').value;
            if (isNaN(inp)) {
                findVowel(inp);
            } else {
                findReverse(inp);
            }
        }
        function findVowel(inp) {
            var str = inp.toLowerCase();
            var pos = 0, ch = "";
            for (var i = 0; i < str.length; i++) {
                ch = str.charAt(i);
                if (ch == "a" || ch == "e" || ch == "i" || ch == "o" || ch == "u") {
                    pos = i + 1;
                    break;
                }
            }
            if (pos == 0) {
                alert("Vowel not found.!");
            } else {
                alert("Vowel found at position: " + pos);
            }
        }
        function findReverse(inp) {
            var num = parseInt(inp);
            var temp = num;
            var rem = 0, rev = 0;
            while (num > 0) {
                rem = num % 10;
                rev = rev * 10 + rem;
                num = parseInt(num / 10);
            }
            alert("Number : " + temp + "\nReverse Order : " + rev);
        }
    </script>
</head>

<body>
    <center>
        <h2>Program to find left most vowel or Digits in reverse order</h2>
        <input type="text" id="val" placeholder="Enter STRING or NUMBER" size="50">
        <input type="button" value="Validate" onclick="validate();">
    </center>
</body>

</html>

```

```

<!-------program 5----->

<?xml-stylesheet type="text/css" href="5.css" ?>
<!DOCTYPE HTML>
<html>

<head>
  <h1> STUDENTS DESCRIPTION </h1>
  <link rel="stylesheet" type="text/css" href="5.css" />
</head>
<students>
  <student>
    <USN>USN : 4AL15CS009</USN>
    <name>NAME : AMEEEN</name>
    <college>COLLEGE : AIET</college>
    <branch>BRANCH : Computer Science and Engineering</branch>
    <year>YEAR : 2019</year>
    <e-mail>E-Mail : ameen@gmail.com</e-mail>
  </student>
  <student>
    <USN>USN : 4AL15CS008</USN>
    <name>NAME : Albin</name>
    <college>COLLEGE : AIET</college>
    <branch>BRANCH : Information Science and Engineering</branch>
    <year>YEAR : 2019</year>
    <e-mail>E-Mail : albin@gmail.com</e-mail>
  </student>
  <student>
    <USN>USN : 4AL16CS010</USN>
    <name>NAME : Amogha</name>
    <college>COLLEGE : AIET</college>
    <branch>BRANCH : Computer Science and Engineering </branch>
    <year>YEAR : 2019</year>
    <e-mail>E-Mail : ampgha@gmail.com</e-mail>
  </student>
</students>

</html>

```

```
/*-----program 5 css -----*/
```

```
student {  
    display: block;  
    margin-top: 10px;  
    color: Navy;  
}  
  
USN {  
    display: block;  
    margin-left: 10px;  
    font-size: 10pt;  
    color: Red;  
}  
  
name {  
    display: block;  
    margin-left: 20px;  
    font-size: 10pt;  
    color: Blue;  
}  
  
college {  
    display: block;  
    margin-left: 20px;  
    font-size: 10pt;  
    color: Green;  
}  
  
branch {  
    display: block;  
    margin-left: 20px;  
    font-size: 10pt;  
    color: Navyblue;  
}  
  
year {  
    display: block;  
    margin-left: 20px;  
    font-size: 10pt;  
    color: Black;  
}
```

```
<!-------program 6 php----->
```

```
<?php
```

```
$count =0;
```

```
$file = fopen("count.txt", 'a');
```

```
$count = fread($file, 10);
```

```
fclose($file);
```

```
$count++;
```

```
echo "<center><h2>Number of Visitors: ".$count."</h2></center>";
```

```
$file = fopen("count.txt", 'w');
```

```
fwrite($file, $count);
```

```
fclose($file);
```

```
?>
```

```
<!-------program 7----->

<!DOCTYPE HTML>
<html>

<head>
  <meta http-equiv="refresh" content="1" />
  <style>
    p {
      color: white;
      font-size: 90px;
      position: absolute;
      top: 50%;
      left: 50%;
      transform: translate(-50%, -50%);
    }

    body {
      background-color: black;
    }
  </style>
  <p><?php echo date("h:i:sA"); ?>
</p>
</head>

</html>
```



```
<!-------program 8a----->

<!DOCTYPE html>
<html>

<body>
    <?php
    $ans = null;
    if (isset($_POST['submit'])) {
        $ex = $_POST['exp'];
        $ans = eval('return '.$ex.';');
    }
    ?>

    <form name="calc" action="" method="POST" style="text-align:center; margin-top: 10%;">
        <input type="text" name="exp" value="<?php if(!is_null($ans)) echo($ans);?>"
            placeholder="Enter expression here">
        <input type="submit" name="submit">
    </form>
</body>

</html>
```

```

<!-------program 8b----->

<?php
$mat = array(array(1,2), array(4,5), array(7,8)); //Initializing array in PHP
$transpose = array(); //Creating empty array in PHP
echo "<html><head><title>Matrix Transpose</title></head><body>";
echo "<h1>Matrix is:<br/>";

for($i = 0; $i < count($mat); $i++)
{
    for ($j = 0; $j < count($mat[0]); $j++)
    {
        echo $mat[$i][$j]. " ";
    }
    echo "<br/>";
}
echo "</h1>";
for($i = 0; $i < count($mat); $i++) //calculation for Transpose
{
    for($j = 0; $j < count($mat[0]); $j++)
    {
        $transpose[$j][$i]=$mat[$i][$j];
    }
}
echo "<h1>Transpose of a Matrix is:<br/>";
for($i = 0; $i < count($transpose); $i++)
{
    for ($j = 0; $j < count($transpose[0]); $j++)
    {
        echo $transpose[$i][$j]. " ";
    }
    echo "<br/>";
}
echo "</h1>";
echo "</body></html>";
?>

```

```

<!-------program 8c----->

<?php
$mat1 = array( array(1,2), array(3,4), array(5,6) );
$mat2 = array( array(2,4,8), array(1,3,5) );

echo "<html><head><title>Matrix Multiplication</title></head><body>";

if(count($mat1[0])!=count($mat2)) {
    echo "<h1>Incompatible Matrices</h1>";
    exit(0);
}

$res=array();
echo "<h1>Matrix A:<br/>";
for($i = 0; $i < count($mat1); $i++)
{
    for ($j = 0; $j < count($mat1[0]); $j++)
    {
        echo $mat1[$i][$j] . " ";
    }
    echo "<br/>";
}
echo "</h1>";

echo "<h1>Matrix B:<br/>";
for($i = 0; $i < count($mat2); $i++)
{
    for ($j = 0; $j < count($mat2[0]); $j++)
    {
        echo $mat2[$i][$j] . " ";
    }
    echo "<br/>";
}
echo "</h1>";
for($i = 0; $i < count($mat1); $i++)
    for($j = 0; $j < count($mat2[0]); $j++)
    {
        $res[$i][$j]=0;
        for($k=0;$k<count($mat2);$k++)
            $res[$i][$j]=$res[$i][$j]+$mat1[$i][$k]*$mat2[$k][$j];
    }
echo "<h1>A x B:<br/>";
for($i = 0; $i < count($res); $i++)
{
    for ($j = 0; $j < count($res); $j++)
    {
        echo $res[$i][$j] . " ";
    }
    echo "<br/>";
}
echo "</h1>";
echo "</body></html>";
?>

```

```

<!-------program 8d----->

<?php
$mat1 = array(array(1, 2), array(3, 4), array(5, 6));
$mat2 = array(array(1, 1), array(2, 2), array(3, 3));

echo "<html><head><title>Matrix Addition</title></head><body>";
if ((count($mat1) != count($mat2)) || (count($mat1[0]) != count($mat2[0]))) {
    echo "<h1>Incompatible Matrices</h1>";
    exit(0);
}
echo "<h1>Matrix A:<br/>";
for ($i = 0; $i < count($mat1); $i++) {
    for ($j = 0; $j < count($mat1[0]); $j++) {
        echo $mat1[$i][$j] . " ";
    }
    echo "<br/>";
}
echo "</h1>";
echo "<h1>Matrix B:<br/>";
for ($i = 0; $i < count($mat2); $i++) {
    for ($j = 0; $j < count($mat2[0]); $j++) {
        echo $mat2[$i][$j] . " ";
    }
    echo "<br/>";
}
echo "</h1>";
$res = array();
for ($i = 0; $i < count($mat1); $i++)
    for ($j = 0; $j < count($mat1[0]); $j++) {
        $res[$i][$j] = $mat1[$i][$j] + $mat2[$i][$j];
    }
echo "<h1>A + B :<br/>";
for ($i = 0; $i < count($res); $i++) {
    for ($j = 0; $j < count($res[0]); $j++) {
        echo $res[$i][$j] . " ";
    }
    echo "<br/>";
}
echo "</h1>";

```

```
<!-------program 9----->

<?php
$states = "Mississippi Alabama Texas Massachusetts Kansas";
$statesArray = [];
$states1 = explode(' ', $states);
echo "original Array: <br>";

foreach ($states1 as $i => $values)
    print("STATES[$i] = $values<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 => $values)
    print("STATES[$array] = $values<br>");
?>
```

<!-------program 10----->

```
<!DOCTYPE html>
<html>
```

```
<body>
<style>
    table,
    td,
    th {
        border: 1px solid black;
        width: 33%;
        text-align: center;
        border-collapse: collapse;
        background-color: lightblue;
    }

    table {
        margin: auto;
    }
</style>
```

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "STUDENT";
$a = [];

$conn = mysqli_connect($servername, $username, $password, $dbname);
if ($conn->connect_error)
    die("Connection failed" . $conn->connect_error);
$sql = "SELECT * FROM student";

$result = $conn->query($sql);
echo "<br>";
echo "<center>BEFORE SORTING </center>";
echo "<table border='2'>";
echo "<tr>";
echo "<th>USN</th><th>NAME</th><th>Address</th></tr>";
if ($result->num_rows > 0) {
    while ($row = $result->fetch_assoc()) {
        echo "<tr>";
        echo "<td>" . $row["usn"] . "</td>";
        echo "<td>" . $row["name"] . "</td>";
        echo "<td>" . $row["address"] . "</td></tr>";
        array_push($a, $row["usn"]);
    }
} else
    echo "Table is empty";
echo "</table>";

$n = count($a);
$b = $a;

for ($i = 0; $i < ($n - 1); $i++) {

    $pos = $i;
    for ($j = $i; $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 "<tr>";
echo "<center>AFTER SORTING </center>";
echo "<table border='2'>";
echo "<tr>";
echo "<th>USN</th><th>NAME</th><th>ADDDRESS</th></tr>";
for ($i = 0; $i < $n; $i++) {
    echo "<br>";
    echo "<td>" . $a[$i] . "</td>";
    echo "<td>" . $c[$i] . "</td>";
    echo "<td>" . $d[$i] . "</td></tr>";
}

echo "</table>";
$conn->close();
?>
</body>

</html>

```

```
/* few sql commands */

DROP DATABASE 'student';
CREATE DATABASE 'student';
use 'student';

CREATE TABLE 'student' (
  'usn' varchar(20) DEFAULT NULL,
  'name' varchar(20) DEFAULT NULL,
  'address' varchar(20) DEFAULT NULL
) ;

INSERT INTO 'student' ('usn', 'name', 'address')
VALUES
('4al16cs008', 'badne', 'hassan'),
('4al16cs009', 'adne', 'shimoga'),
('4al16cs002', 'jyothi', 'shimoga');
```