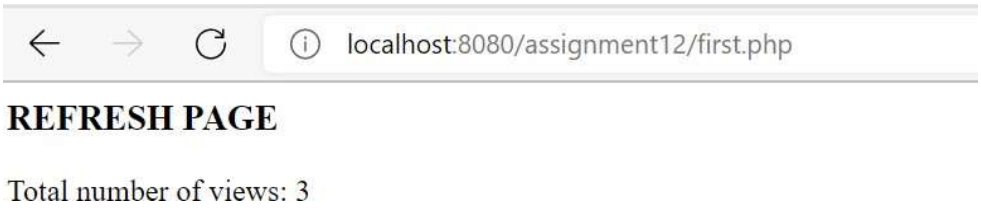
NAME – Shishu **REGISTRATION NO – 2020CA089**

WEEK-12 PHP

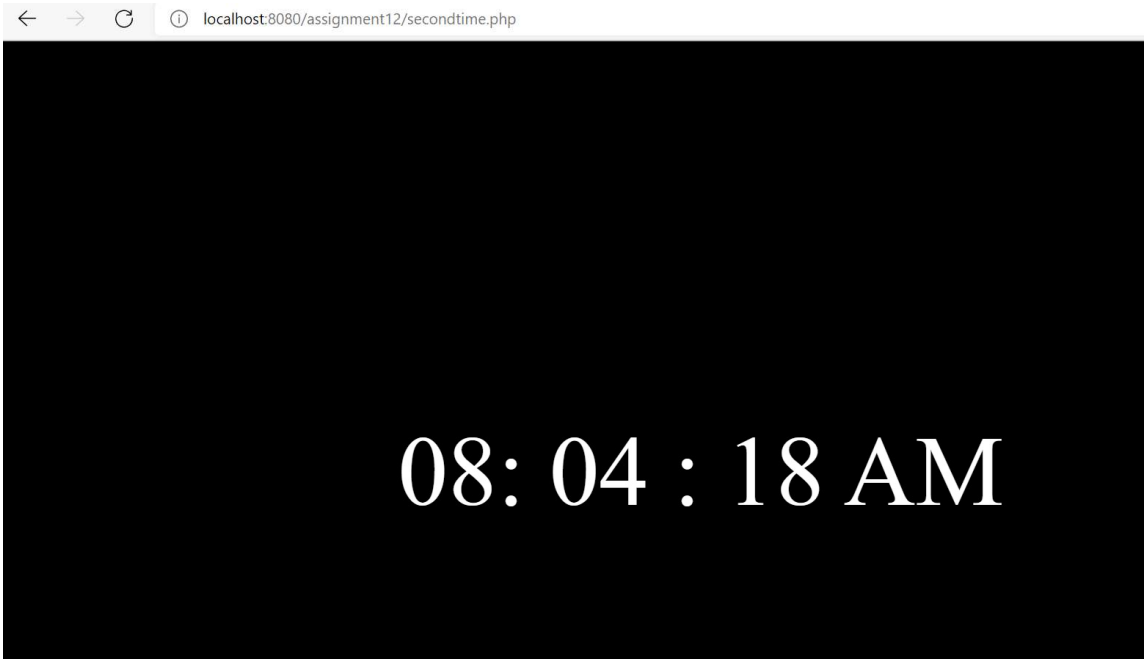
- Write a PHP program to keep track of the number of visitors visiting the web page and to display this count of visitors, with proper headings.

```php
<?php
print "<h3> REFRESH PAGE </h3>";
$name="counter.txt";
$file = fopen($name,"r");
$hits= fscanf($file,"%d");
fclose($file);
$hits[0]++;
$file = fopen($name,"w");
fprintf($file,"%d",$hits[0]);
fclose($file);
print "Total number of views: ".$hits[0];
?>
```



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

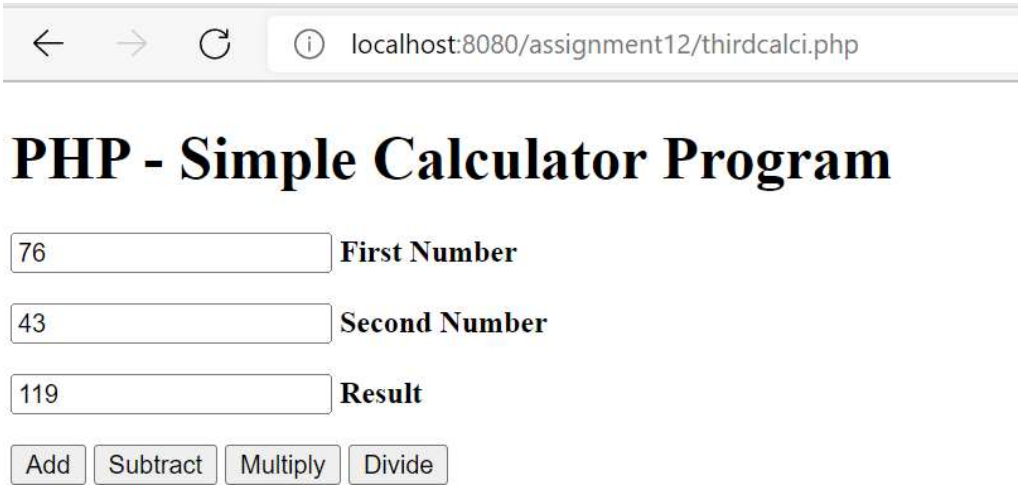
```
<!DOCTYPE HTML>
<html>
<head>
<meta http-equiv="refresh" content="1"/>
<style>
p {
color:white;
font-size:90px;
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%);
}
body{background-color:black;}
</style>
<p> <?php echo date(" h: i : s A");?> </p>
</head>
```



- Write the PHP programs to do the following:
  a) Implement simple calculator operations

```
<!DOCTYPE html>
<head>
    <title>Simple Calculator Program in PHP - Tutorials Class</title>
</head>
<?php
$first_num =$_POST['first_num'];
$second_num =$_POST['second_num'];
```

```
$operator =$_POST['operator'];
$result = '';
if (is_numeric($first_num) && is_numeric($second_num)) {
    switch ($operator) {
        case "Add":
           $result = $first_num + $second_num;
            break;
        case "Subtract":
           $result = $first_num - $second_num;
            break;
        case "Multiply":
            $result = $first_num * $second_num;
            break;
        case "Divide":
            $result = $first_num / $second_num;
    }
}
?>
<body>
    <div id="page-wrap">
    <h1>PHP - Simple Calculator Program</h1>
      <form action="" method="post" id="quiz-form">
            <p>
                <input type="number" name="first_num" id="first_num"
required="required" value="<?php echo $first_num; ?>" /> <b>First Number</b>
            </p>
            <p>
                <input type="number" name="second_num" id="second_num"
required="required" value="<?php echo $second_num; ?>" /> <b>Second Number</b>
            </p>
            <p>
                <input readonly="readonly" name="result" value="<?php echo
$result; ?>"> <b>Result</b>
            </p>
            <input type="submit" name="operator" value="Add" />
            <input type="submit" name="operator" value="Subtract" />
            <input type="submit" name="operator" value="Multiply" />
            <input type="submit" name="operator" value="Divide" />
      </form>
    </div>
</body>
</html>
```



b) Find the transpose of a matrix

```php
<!DOCTYPE html>
<html>
<body>
<?php
//Initialize matrix a
$a = array(
            array(1, 2, 3),
            array(4, 5, 6),
            array(7, 8, 9)
           );

//Calculates number of rows and columns present in given matrix
$rows = count($a);
$cols = count($a[0]);

//Declare array t with reverse dimensions and initialize it with 0
$t = array_fill(0, $cols, array_fill(0, $rows, 0));

//Calculates transpose of given matrix
for($i = 0; $i < $cols; $i++){
    for($j = 0; $j < $rows; $j++){
        //Converts the row of original matrix into column of transposed
matrix
        $t[$i][$j] = $a[$j][$i];
    }
}
```

```
print("Transpose of given matrix: <br>");
for($i = 0; $i < $cols; $i++){
    for($j = 0; $j < $rows; $j++){
       print($t[$i][$j] . " ");
    }
    print("<br>");
}
?>
</body>
</html>
```

Transpose of given matrix:
1 4 7
2 5 8
3 6 9

a) Multiplication of two matrices

```
<?php
$arr1 = array(
 array(1, 1, 1),
 array(1, 1, 1),
 array(1, 1, 1),
);
$arr2 = array(
 array(2, 2, 2),
 array(2, 2, 2),
 array(2, 2, 2),
);
$arr3 = array(
 array(0, 0, 0),
 array(0, 0, 0),
 array(0, 0, 0),
);

echo "Matrix A (3 x 3): <br>";
for($i=0; $i<3; $i++)
```

```
{
 for($j=0;  $j<3;  $j++)
 echo $arr1[$i][$j] . " ";
 echo "<br>";
}

echo "<br>Matrix B (3 x 3): <br>";
for($i=0; $i<3; $i++)
{
 for($j=0;  $j<3;  $j++)
 echo $arr2[$i][$j] . " ";
 echo "<br>";
}

for($i=0; $i<3; $i++)
{
 for($j=0; $j<3; $j++)
 {
  for($k=0; $k<3; $k++)
   $arr3[$i][$j] = $arr3[$i][$j] + $arr1[$i][$k] * $arr2[$k][$j];
 }
}

echo "<br>Matrix Multiplication (A x B): <br>";
for($i=0; $i<3; $i++)
{
 for($j=0;  $j<3;  $j++)
 echo $arr3[$i][$j] . " ";
 echo "<br>";
}
?>
```

Matrix A (3 x 3):

1 1 1
1 1 1
1 1 1

Matrix B (3 x 3):

2 2 2
2 2 2
2 2 2

Matrix Multiplication (A x B):

6 6 6
6 6 6
6 6 6

d) Addition of two matrices

```
<html>
    <body>
        <?php
echo "<b>The First matrix is given below:-</b>"."<br>";
$a=array(array());// First two dimensional array declaration
$b=array(array());//Second two dimensional array declaration
$c=array(array());//Third two dimensional array declaration
$rows=4;
$cols=4;
$m=1;
$n=1;
for($i=0;$i<$rows;$i=$i+1)
{
    for($j=0;$j<$cols;$j=$j+1)
    {
        $a[$i][$j]=$m;
        echo $a[$i][$j]." ";
        $m=$m+1;
```

```
    }
    echo "<br>";
}
echo "<b>The second matrix is given below:-</b><br>";
for($i=0;$i<$rows;$i=$i+1)
{
    for($j=0;$j<$cols;$j=$j+1)
    {
        $b[$i][$j]=$n;
        echo $b[$i][$j]." ";
        $n=$n*1;
    }
    echo "<br>";
}
echo "<b>The Final matrix is given below:-</b>"."<br>";
for($i=0;$i<$rows;$i=$i+1)
{
    for($j=0;$j<$cols;$j=$j+1)
    {
        $c[$i][$j]=$a[$i][$j]+$b[$i][$j];
        echo $c[$i][$j]." ";
    }
    echo "<br>";
}
        ?>
    </body>
</html>
```

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The First matrix is given below:-
123 4
5678
9101112
13 14 15 16
The second matrix is given below:-
1 1 1 1
1 1 1 1
1 1 1 1
1 1 1 1
The Final matrix is given below:-
2345
6 7 8 9
10 11 12 13
14 15 16 17

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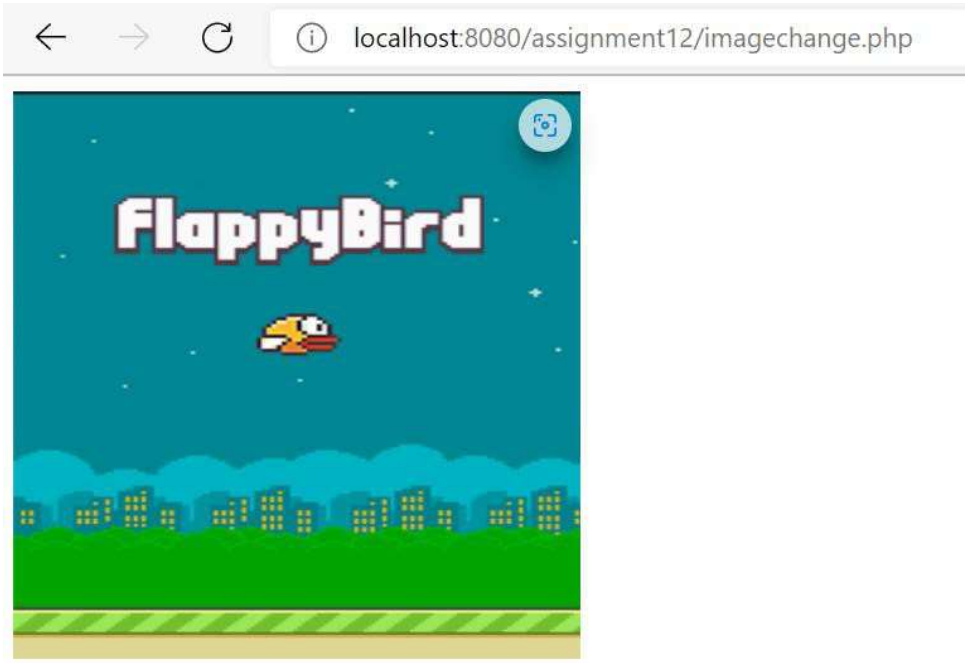
The First matrix is given below:-
1234
5678
9 10 11 12
13 14 15 16
The second matrix is given below:-
1 1 1 1
1 1 1 1
1 1 1 1
1 1 1 1
The Final matrix is given below:-
2345
6789
10 11 12 13
14151617

- Write PHP program to convert a string, lower to upper case and upper case to lower case or capital case.

```
<!DOCTYPE html>
<html>
<body>
<?php
    $str1 = "Great Power";
    for($i = 0; $i < strlen($str1); $i++){
        //Checks for lower case character
        if($str1[$i] >= 'a' && $str1[$i] <= 'z'){
            //Convert it into upper case using strtoupper() function
            $str1[$i] = strtoupper($str1[$i]);
        }
        //Checks for lower case character
        elseif($str1[$i] >= 'A' && $str1[$i] <= 'Z'){
            //Convert it into upper case using strtolower() function
            $str1[$i] = strtolower($str1[$i]);
        }
    }
echo "String after case conversion : $str1";
?>
</body>
</html>
```

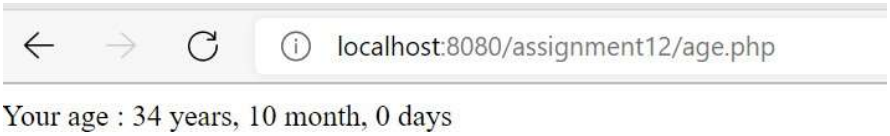
- Write PHP program to change image automatically using switch case.

```php
<?php

$a=rand(1,5);
    switch($a)
    {       case 1:
            $greet2 ="message.png";
            break;
            case 2:
            $greet2 ="base.png";
            break;
            case 3:
            $greet2 ="bird.png";
            break;
            case 4:
            $greet2 ="background.png";
            break;
            case 5:
            $greet2 ="pipe.jpg";
    }

 echo" <img src='$greet2' height='300' width='300'>";

?>
```



- Write PHP program to calculate current age without using any pre-define function.

```
<?php
$bday = new DateTime('11.4.1987'); // Your date of birth
$today = new Datetime(date('m.d.y'));
$diff = $today->diff($bday);
printf(' Your age : %d years, %d month, %d days', $diff->y, $diff->m, $diff->d);
printf("\n");
?>
```



Your age : 34 years, 10 month, 0 days

- Write PHP program to upload image to the server using html and PHP.

```php
<?php

error_reporting(0);

?>

<?php

$msg = "";

// check if the user has clicked the button "UPLOAD"

if (isset($_POST['uploadfile'])) {

    $filename = $_FILES["choosefile"]["name"];

    $tempname = $_FILES["choosefile"]["tmp_name"];

        $folder = "image/".$filename;

      // connect with the database

    $db = mysqli_connect("localhost", "root", "", "Image_upload");

        // query to insert the submitted data

        $sql = "INSERT INTO image (filename) VALUES ('$filename')";

     // function to execute above query

        mysqli_query($db, $sql);

        // Add the image to the "image" folder"

        if (move_uploaded_file($tempname, $folder)) {

            $msg = "Image uploaded successfully";

        }else{

            $msg = "Failed to upload image";

    }
```

```
}
$result = mysqli_query($db, "SELECT * FROM image");
?>
<!DOCTYPE html>
<html>
<!DOCTYPE html>
<html>
 <head>
    <title>Image Upload in PHP</title>
    <! link the css file to style the form >
    <link rel="stylesheet" type="text/css" href="style.css" />
  <style type="text/css">
        #wrapper{
            width: 50%;
            margin: 20px auto;
            border: 2px solid #dad7d7;
        }
        form{
            width: 50%;
            margin: 20px auto;
        }
        form div{
            margin-top: 5px;
        }
```

```
        img{
            float: left;
            margin: 5px;
            width: 280px;
            height: 120px;
        }
        #img_div{
            width: 70%;
            padding: 5px;
            margin: 15px auto;
            border: 1px solid #dad7d7;
        }
        #img_div:after{
            content: "";
            display: block;
            clear: both;
        }
    </style>
</head>
 <body>
    <div id="wrapper">
         <! specify the encoding type of the form using the
                enctype attribute >
         <form method="POST" action="" enctype="multipart/form-data">
```

```
                <input type="file" name="choosefile" value="" />
            <div>
                <button type="submit" name="uploadfile">WAMP or XAMPP server
                UPLOAD
                </button>
            </div>
        </form>
    </div>
</body>
</html>
```

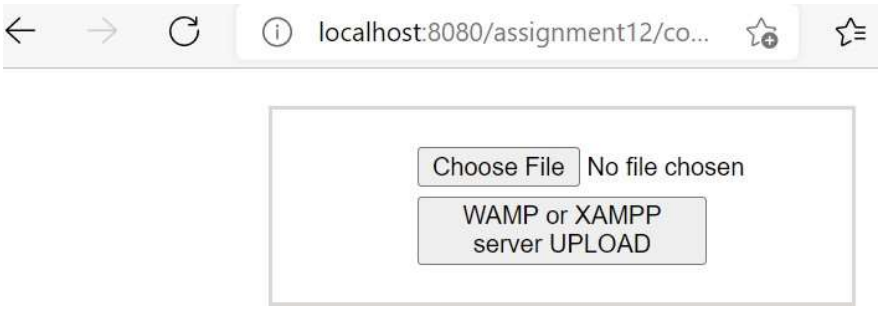


Table structure Relation view

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Indexes

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