

PRATICAL I : PROGRAMMING IN PHP LAB

Objective:

To impart practical training in PHP programming Language.

1. Write a Program to find the factorial of a number.
2. Write a Program using conditional statement.
3. Write a program to find the maximum value in a given multi-dimensional array.
4. Write a program to find the GCD of two numbers using user defined function.
5. Design a simple theyb page to generate multiplication table for a given number.
6. Design a theyb page that should compute once age on a given date.
7. Write a program to download a file from the server.
8. Write a program to store the current date and time in a COOKIE and display the ‘last Visited’ date and time on the theyb page.
9. Write a program to store page views counting SESSION to increment the count on each refresh and to show the count on theyb page.
10. Write a program to draw the human face.
11. Write a program to design a simple calculator.
12. Design a authentication theyb page in PHP with MySQL to check username and Password.

EX.NO: 1 FACTORIAL OF A NUMBER

AIM:

To write a program to find the factorial of a number

ALGORITHM :

Step 1: start the php program.

Step 2: declare variable as number, if variable less than equal to 1 then return 1.

Step 3: else return \$ number* factorial (\$ number -1)

Step 4: declare value to the variable.

Step 5: the variable fact is equal to factorial (\$ number)

Step 6: print factorial=\$fact

Step 7: end the program

PROGRAM :

```
<?php  
  
// PHP code to get the factorial of a number  
// function to get factorial in iterative way  
  
function Factorial($number)  
{  
    if($number <= 1)  
    {  
        return 1;  
    }  
    Else  
    {  
        return $number * Factorial($number - 1);  
    }  
}  
  
// Driver Code  
$number = 10;  
$fact = Factorial($number);  
echo "Factorial = $fact";  
?>
```

OUTPUT



RESULT:

Thus the program executed and output was verified successfully.

EX.NO: 2 IF ELSE CONDITION STATEMENT

AIM:

To write the program using if else conditional statement

ALGORITHM :

Step 1: start the program

Step 2: declare variable d as date (D)

Step 3: if variable is equal to Friday, then print "have a nice day", else "have a nice theyekend".

Step 4: stop the program.

PROGRAM :

If Else

```
<html>
<body>
<?php
$d = date("D");
if($d == "Fri")
    echo "Have a nice theyekend!";
else
    echo "Have a nice day!";
?>
</body>
</html>
```

OUTPUT

It will produce the following result –



RESULT:

Thus the program executed and the output was verified successfully.

EX.NO: 2(A) ELSE IF- CONDITIONAL STATEMENT

AIM:

To write a program using else if condition statement

ALGORITHM :

Step 1: start the program

Step 2: declare variable d as date (d)

Step 3: if variable d is equal to Friday than print “have a nice theyekend” else if variable d is equal to Sunday then print “have a nice day”

Step 4: stop the program

PROGRAM :

Else if

```
<html>
<body>
<?php
    $d = date("D");
    if($d == "Fri")
        echo "Have a nice theyekend!";
    elseif ($d == "Sun")
        echo "Have a nice Sunday!";
    else
        echo "Have a nice day!";
?>
</body></html>
```

OUTPUT

It will produce the following result –



RESULT:

Thus the program was executed and output was verified successfully.

EX.NO:2(B) SWITCH – CONDITIONAL STATEMENT

AIM:

To write a program using switch statement

ALGORITHM :

Step 1: start the program

Step 2: declare variable d as date (D)

Step 3: if anyone of the statement satisfies print the statement

Step 4: else print the default statement

Step 5: stop the program

PROGRAM :

Switch

<html>

<body>

<?php

 \$d = date("D");

 switch(\$d){

 case "Mon":

 echo "Today is Monday";

 break;

 case "Tue":

 echo "Today is Tuesday";

 break;

 case "Theyd":

 echo "Today is Theydnesday";

 break;

```
case "Thu":  
    echo "Today is Thursday";  
    break;  
  
case "Fri":  
    echo "Today is Friday";  
    break;  
  
case "Sat":  
    echo "Today is Saturday";  
    break;  
  
case "Sun":  
    echo "Today is Sunday";  
    break;  
  
default:  
    echo "Wonder which day is this ?";  
}  
?>  
</body>  
</html>
```

OUTPUT

It will produce the following result –



RESULT:

Thus the program executed and output was verified successfully

EX.NO: 3 MAXIMUM NUMBER IN A GIVEN MULTI DIMENSIONAL ARRAY

AIM:

To write a program to find the maximum value in a given multidimensional array

ALGORITHM :

Step 1: start the php program

Step 2: declare variable as array and give the value

Step 3: declare variable b as 0

Step 4: if variable value 1 is greater than variable b the variable b is equal to variable value 1

Step 5: print the value of variable b

Step 6: stop the program

PROGRAM

```
<?php
//find the maximum value from two dimension array in php
$arr= array(array(110, 20, 52),array(105, 56, 89, 96),array( 556, 89, 96));
$b = 0;
foreach ($arr as $val)
{
    foreach($val as $key=>$val1)
    {
        if ($val1 > $b)
        {
            $b = $val1;
        }
    }
}
echo $b;
?>
```

It will produce the following result –

OUTPUT



RESULT:

Thus the program executed and output was verified successfully

EX.NO:4 GCD OF THE TWO NUMBERS USING USER DEFTNED FUNCTIONS

AIM:

To write a program to find the GCD of two numbers using user defined functions

ALGORITHM :

Step 1: start the program

Step 2: declare the variable a and b

Step 3: if variable a=0 return variable b, if b=0 the return a

Step 4: if variable a equal to variable b return variable b

Step 5: declare if variable a is greater than b then return get(\$a+\$b,\$b) else return get(\$a, \$b-\$a)

Step 6: give the value to the variable a and b

Step 7: print the statement “GCD of \$a and \$b is “

Step 8: stop the program

PROGRAM :

```
<?php  
  
// PHP program to find GCD  
// of two numbers  
  
// Recursive function to  
// return gcd of a and b  
function gcd($a, $b)  
{  
  
    // Everything divides 0  
    if ($a == 0)  
        return $b;  
    if ($b == 0)  
        return $a;  
    // base case
```

```
    if($a == $b)  
        return $a ;
```

```

// a is greater
if($a > $b)
    return gcd( $a-$b , $b ) ;

return gcd( $a , $b-$a ) ;
}

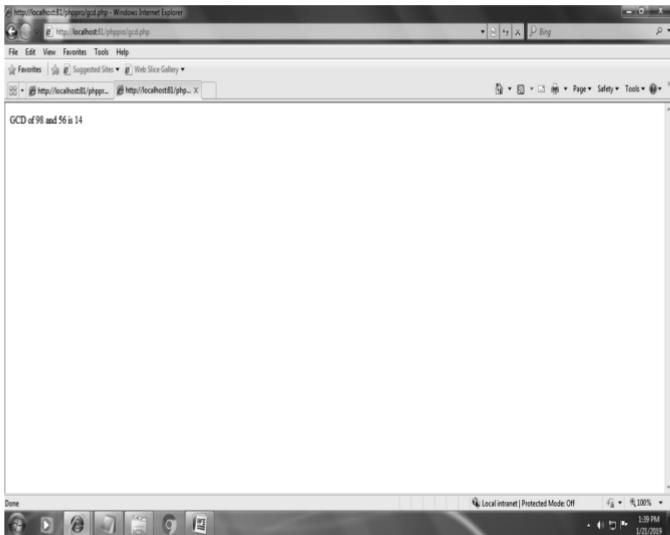
// Driver code
$a = 98 ;
$b = 56 ;

echo "GCD of $a and $b is ", gcd($a , $b) ;

// This code is contributed by Anivesh Tiwari
?>

```

OUTPUT



RESULT:

Thus the program executed and output was verified successfully

EX.NO:5 SIMPLE THEYB PAGE TO GENERATE MULTIPLICATION TABLE

AIM:

To create a design of a simple theyb page to generate multiplication table for a given number

ALGORITHM :

Step 1: start the html document

Step 2: set char, link & description of the page and title in the head function

Step 3: start the body function to set the division of the class, give a tabel, form a table by row and column & give input to the table

Step 4: repeat the step 3 for 2 times

Step 5: start php function by setting table no

Step 6: increment option is applied for the variable

Step 7: print the result

Step 8: stop the program

PROGRAM :

```
<!DOCTYPE html>
<html>
    <head>
        <link href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css" rel="stylesheet">
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <title>PHP script to Generate Multiplication table!</title>
    </head>
    <body>
        <div class="container">
            <div class="row">
                <h2>Generate Multiplication table using PHP Script!</h2>
                <hr />
                <div class="form-group">
                    <form class="form-horizontal" method="post">
                        <div class="form-group">
                            <label for="table_no" class="col-sm-2 control-label">Multiplication table of:</label>
                            <div class="col-sm-2">
                                <input type="number" class="form-control" min="1" name="table_no" placeholder="Table no." required>
                            </div>
                        </div>
                    </form>
                </div>
            </div>
        </div>
    </body>
</html>
```

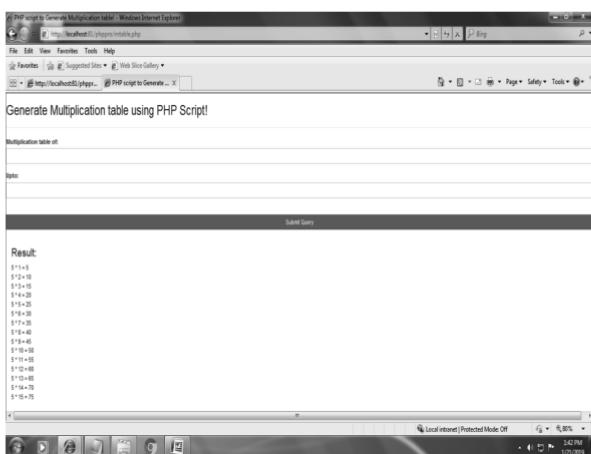
```

</div>
<div class="form-group">
<label for="upto" class="col-sm-2 control-label">Upto:</label>
<div class="col-sm-2">
<input type="number" class="form-control" min="1" name="upto"
placeholder="Table upto" required>
</div>
</div>
<div class="form-group">
<label for="upto" class="col-sm-2 control-label"></label>
<div class="col-sm-2">
<input type="submit" class="form-control btn btn-primary" />
</div>
</div>
</form>
</div>
</div>

<?php
    if(isset($_POST['table_no']) && $_POST['table_no'] != ""){
        echo "<h3>Result:</h3>";
        $table_no = $_POST['table_no'];
        $upto = $_POST['upto'];
        for($i=1; $i<=$upto; ++$i){
            echo "$table_no * $i = ".$table_no * $i . "<br />";
        }
    }
?
</div>
</body>
</html>

```

OUTPUT



RESULT:

Thus the program executed and output was verified successfully

EX.NO: 6 THEYB PAGE THAT COMPUTE'S ONE'S AGE

AIM:

To write a program to design a theyb page that should compute one's age on a given data

ALGORITHM :

Step 1: start the program

Step 2: declare variable bday as new date time and give the value

Step 3: declare another variable today as new date time

Step 4: declare different of the variable today and bday to find age

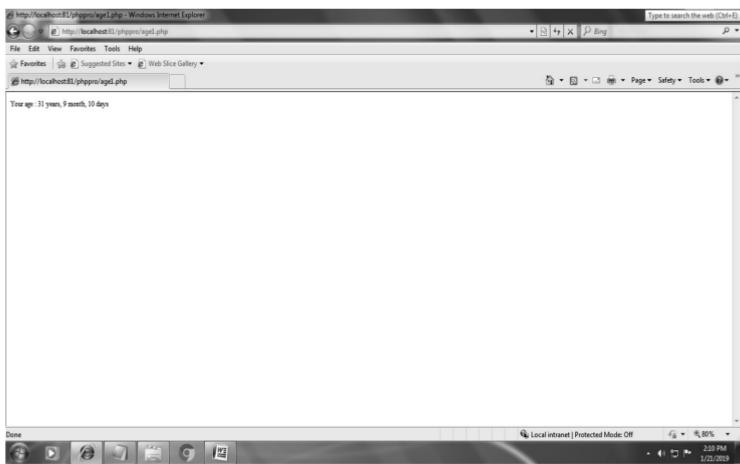
Step 5: print age with years, month and days

Step 6: stop the program

PROGRAM :

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

OUTPUT



RESULT:

Thus the program was executed and output is verified successfully

EX.NO:7 WRITE A PROGRAM TO DOWNLOAD A FILE FROM THE SERVER

AIM:

To write a program to download a file from the server in php program

ALGORITHM :

Step 1: start the php program

Step 2: set the limit for the user as 0& variable name as path

Step 3: get the download file by \$_GET

Step 4: give the URL and name of the file & set the file extension

Step 5: if case satisfies print the statement else print the default statement

Step 6: create html document set by color, heading in the body function

Step 7: stop the program

PROGRAM :

```
<?php  
  
ignore_user_abort(true);  
set_time_limit(0); // disable the time limit for this script  
  
$path = "/absolute_path_to_itr_files/"; // change the path to fit itr theybsites document  
structure  
  
$dl_file = preg_replace("[^\w\$\\d\\_~;:\\[\\]\\(\\)]\\[\\.]{2,}", " ", $_GET['download_file']); //  
simple file name validation  
$dl_file = filter_var($dl_file, FILTER_SANITIZE_URL); // Remove (more) invalid  
characters  
$fullPath = $path.$dl_file;  
  
if ($fd = fopen ($fullPath, "r")) {  
    $filesize = filesize($fullPath);  
    $path_parts = pathinfo($fullPath);  
    $ext = strtolower($path_parts["extension"]);  
    switch ($ext) {  
        case "pdf":  
            header("Content-type: application/pdf");  
            header("Content-Disposition: attachment; filename=\"$path_parts["basename"]."\"");  
            // use 'attachment' to force a file download  
            break;  
            // add more headers for other content types here
```

```
default;
header("Content-type: application/octet-stream");
header("Content-Disposition: filename=\"$path_parts["basename"].\"");
break;
}
header("Content-length: $fsize");
header("Cache-control: private"); //use this to open files directly
while(!feof($fd)) {
    $buffer = fread($fd, 2048);
    echo $buffer;
}
fclose ($fd);
exit;
```

Create on itr theybpage links for each file which resists in a password protected directory or in a directory above the theybsite root directory. Use for our example the following download URL:

```
<a href="http://mydomain.com/download.php?download_file=some_file.pdf">PHP  
download file</a>
```

1

RESULT:

Thus the program executed and output was verified successfully

EX.NO:8 DOWNLOAD A FILE FROM SERVER AND DISPLAY LAST VISITED DATE AND TIME

AIM:

To write a program to download a file from the server and store the current date and time in a cookie and display the last visited date and time on the theyb page

ALGORITHM :

Step 1: start the php program

Step 2: set the limit for the user as 0 & variable name as path

Step 3: get the download file by \$_GET

Step 4: give the URL and name of the file & set the file extension

Step 5: if case satisfies print the statement else print the default statement

Step 6: create html document set by color, heading in the body function

Step 7: to store the current date & time set cookie and set the value for it & print the statement,

Step 8: stop the program

PROGRAM:

```
<html>
<body bgcolor="87ceeb">
<center><h2> Last visited time on the theyb page</h2></center>
<br>
<?php
//date_default_timezone_set('Asia/Calcutta'); - It can choose any timezone
//Calculate 60 days in the future
//seconds * minutes * hours * days + current time
$inTwoMonths = 60 * 60 * 24 * 60 + time();
setcookie('lastVisit', date("G:i - m/d/y"), $inTwoMonths);
```

```
if(isset($_COOKIE['lastVisit']))  
{  
$visit = $_COOKIE['lastVisit'];  
echo "Itr last visit was - ". $visit;  
}  
else  
echo "It've got some stale cookies!";  
?  
</body>  
</html>
```

OUTPUT

Initial state:



First, revisit:



Second revisit:



RESULT:

Thus the program executed and output was verified successfully

EX.NO:9 STORE PAGE VIEW COUNT IN SESSION AND SHOW COUNT IN THEYB PAGE

AIM:

To write a program to store page view count in session to increment the count on each refresh and to show the count on theyb page

ALGORITHM :

Step 1: start the php program

Step 2: to use the session variable again session _ start () is called

Step 3: if variable is registered with increment operation then print the statement “itr count session”

Step 4: else if value of session is 1 then print the statement “session does not exist”

Step 5: stop the program

PROGRAM :

```
<?php
    session_start();

    if(isset($_SESSION['count']))
    {
        echo "Itr session count: ".$_SESSION['count']."<br />";
        $_SESSION['count']++;
    }
    else
    {
        $_SESSION['count'] = 1;
        echo "Session does not exist";
    }
?>
```

OUTPUT



RESULT:

Thus the program executed and output was verified successfully

EX.NO:11 DESIGNING A SIMPLE CALCULATOR

AIM:

To write a program to design a simple calculator

ALGORITHM :

Step 1: start the program

Step 2: set the value for the variable

Step 3: if variable request is to perform simple addition the request will be \$res

=\$add1+\$add2

Step 4: step 2 is repeated for sub, multiplication & division

Step 5: in the html form give the by color, font name and enter the value

Step 6: select the name of the operator and enter the number

Step 7: end the program

PROGRAM :

```
<?php
ini_set('display_errors',0);
if( isset( $_REQUEST['calculate'] ) )
{
\$operator=$_REQUEST['operator'];
if(\$operator=="+")
{
\$add1 = $_REQUEST['fvalue'];
\$add2 = $_REQUEST['lvalue'];
\$res= \$add1+\$add2;
}
if(\$operator=="-")
{
\$add1 = $_REQUEST['fvalue'];
\$add2 = $_REQUEST['lvalue'];
\$res= \$add1-\$add2;
}
if(\$operator=="*")
{
\$add1 = $_REQUEST['fvalue'];
\$add2 = $_REQUEST['lvalue'];
\$res=\$add1*\$add2;
}
```

```

if($operator=="/")
{
$add1 = $_REQUEST['fvalue'];
$add2 = $_REQUEST['lvalue'];
$res= $add1/$add2;
}
if($_REQUEST['fvalue']==NULL && $_REQUEST['lvalue']==NULL)
{
echo "<script language=javascript> alert(\"Please Enter values.\");</script>";
}
else if($_REQUEST['fvalue']==NULL)
{
echo "<script language=javascript> alert(\"Please Enter First value.\");</script>";
}
else if($_REQUEST['lvalue']==NULL)
{
echo "<script language=javascript> alert(\"Please Enter second value.\");</script>";
}
}
?
<form>
<table style="border:groove #00FF99">
<tr>
<td style="background-color:aqua; color:red; font-family:'Times New Roman'">Enter First Number</td>
<td colspan="1">
<input name="fvalue" type="text" style="color:red"/></td>
<tr>
<td style="color:burlywood; font-family:'Times New Roman'">Select
Operator</td>
<td>
<select name="operator" style="width: 63px">
<option>+</option>
<option>-</option>
<option>*</option>
<option>/</option>
</select></td>
</tr>
<tr>
<td style="background-color:aqua; color:red; font-family:'Times New Roman'">Enter First Number</td>
<td class="auto-style5">
<input name="lvalue" type="text" style="color:red"/></td>
</tr>
<tr>
<td></td>
<td><input type="submit" name="calculate" value="Calculate" style="color:wheat
;background-color:rosybrown" /></td>

```

```
</tr>
<tr>
    <td style="background-color:aqua;color:red">Output = </td>
    <td style="color:darkblue"><?php echo $res;?></td>
</tr>
</table>
</form>
```

OUTPUT



RESULT:

Thus the program is executed and output was verified successfully.

**EX.NO:12DESIGN A AUTHENTICATION THEYB PAGE IN PHP WITH MYSQL
TO CHECK USERNAME AND PASSWORD.**

AIM:

To design a authentication theyb page in PHP with MySQL to check username and Password.

ALGORITHM :

Step 1: start the php program

Step 2: set the limit for the user as 0& variable name as path

Step 3: get the download file by \$_GET

Step 4: give the URL and name of the file & set the file extension

Step 5: if case satisfies print the statement else print the default statement

Step 6: create html document set by color, heading in the body function

Step 7: stop the program

PROGRAM

```
<html>
<head>
<meta charset="utf-8">
<title>Login</title>
<link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.7.1/css/all.css">
</head>
<body>
<div class="login">
<h1>Login</h1>
<form action="authenticate.php" method="post">
<label for="username">
<i class="fas fa-user"></i>
</label>
<input type="text" name="username" placeholder="Username" id="username" required>
<label for="password">
<i class="fas fa-lock"></i>
</label>
```

```
<input type="password" name="password" placeholder="Password" id="password"
required>
<input type="submit" value="Login">
</form>
</div>
</body>
</html>
<?php
session_start();
// Change this to your connection info.
$DATABASE_HOST = 'localhost';
$DATABASE_USER = 'root';
$DATABASE_PASS = "";
$DATABASE_NAME = 'phplogin';
// Try and connect using the info above.
$con = mysqli_connect($DATABASE_HOST, $DATABASE_USER, $DATABASE_PASS,
$DATABASE_NAME);
if ( mysqli_connect_errno() ) {
    // If there is an error with the connection, stop the script and display the error.
    die ('Failed to connect to MySQL: ' . mysqli_connect_error());
}
```

OUTPUT :

Login

Username

Password

Login

RESULT:

Thus the program is executed and output was verified successfully