

LAB MANUAL

Course: CS1447 PHP & MySQL Lab

Class: B.Sc. Computer Science

Semester: 4

Prepared By: Swapna kumari E.S



**COLLEGE OF APPLIED SCIENCE
PERISSERY**

TABLE OF CONTENTS

1.	Prime number generation.....	03
2.	Largest among three numbers.....	04
3.	Form program.....	05
4.	Factorial.....	07
5.	Palindrome.....	08
6.	Inheritance	09
7.	Function overloading.....	10
8.	Array insertion.....	11
9.	Array sort.....	13
10.	String program.....	15
11.	Constructor and destructor.....	17
12.	File program.....	18
13.	Database creation.....	19
14.	Table creation.....	20

1.Prime number generation

Aim. Write a php script to print all prime numbers below 100

Program.

```
<? Php
$num=2;
While ($num<100)
{
$div_count=0;
For ($i=1; $i<=$num; $i++)
{
If (($num%$i) ==0)
{
$div_count++;
}
}
if($div_count<3)
{
    Echo $num."\n";
}
$num++;
}
?>
```

Output

2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

2. Largest among three numbers

Aim. Write a php function program to find largest among three numbers using

Using nested if-else

Program

```
<? Php
$num1=20;
$num2=15;
$num3=22;
if ($num1>$num2&&$num1>$num3)
{
Echo $num1;
}
Else {
    If ($num2>$num1&&$num2>$num3)
    {
        Echo $num2;
    }
Else
Echo $num3;
}
?>
```

Output

The largest number is 22

3. Form program

Aim: write a php script that receive form input by the method post to check the number is prime or not

Program

```
<html>
<head>
<title>Prime</title>
</head>
<body>
<h1 align="centre">Prime or Not</h1>
<hr>
<form action="#" method="POST" align="centre">
<Label>Enter a number :</label>
<input type="text" name="num">
<br><br>
<input type="submit" name="sub" value="Check">
</form>
</body>
</html>
<? php
if (isset($_POST['sub'])){
$num=$_POST['num'];
for ($i=2;$i<=$num/2;$i++){
if ($num%$i==0)
break;
}
if($i>$num/2)
$val=true;
else
$val=false;
if(isset($val)&&$val)
echo "<center><b>The number is a prime</b><center>";
else
echo "<center><b>The number is not a prime</b><center>";
```

}

?>

Output

Enter a number:

5 is a prime

4. Factorial

Aim: write a php program to find factorial of a number using form

Program.

```
<html>
<head>
<title> factorial using loop in php </title>
</head>
<body>
<form method="post">
  <input type="number" name="number" id="number">
  <input type="submit" name="submit" value="submit">
</form>
<?php
if($_POST)
{
  $fact=1;
  $number=$_POST['number'];
  echo "factorial of number:";
  for($i=1;$i<=$number;$i++)
  {
    $fact=$fact*$i;
  }
  echo $fact ;
}
?>
</body>
</html>
```

Output

Factorial of number: 720

6. Palindrome

Aim: write a user defined function in php to check whether the given number is palindrome or not

Program.

```
<? Php
Function palindrome ($n)
{
    $num=$n;
    $sum=0;
    While (floor ($num))
    {
        $rem=$num%10;
        $sum=$sum*10+$rem;
        $num=$num/10;
    }
    return $sum;
}
$sample=232;
$rtm=palindrome ($sample);
If ($sample==$rtm)
{
    echo "i/p number is palindrome";
}
else
{
    echo "i/p is not a palindrome"."<br>" ;
}
echo"<br>";
echo "Reverse of a number:". $rtm;
?>
```

Output

I/p number is palindrome

Reverse of a number: 232

7. Inheritance

Aim: write a php script to implement the concept of inheritance

Program

```
<? Php
Class Fruit {
    Public $name;
    Public $color;
    Public function __construct ($name, $color) {
        $this->name = $name;
        $this->color = $color;
    }
    Public function intro () {
        echo "The fruit is {$this->name} and the color is {$this->color}.";
    }
}

// Strawberry is inherited from Fruit
Class Strawberry extends Fruit {
    Public function message () {
        echo "Am I a fruit or a berry? ";
    }
}

$strawberry = new Strawberry ("Strawberry", "red");
$strawberry->message ();
$strawberry->intro ();
?>
```

Output

Am I a fruit or a berry?

The fruit is Strawberry and the color is red.

8. Function overloading

Aim: write a php program to implement the concept function overloading.

Program

```
<? php
Class shape {
    Function __call($name_of_function, $arguments)
    {
        if ($name_of_function == 'area')
        {
            Switch (count($arguments)) {

                Case 1:
                    return 3.14 * $arguments[0];

                Case 2:
                    return $arguments[0]*$arguments[1];
            }
        }
    }
}

$s = new Shape;
echo($s->area(2));
echo "\n";
echo ($s->area(4, 2));
?>
```

Output

6.28

8

9. Array insertion

Aim. Write a php program to insert new item in array on any position in php.

Program

```
<?php
$arr=array (" apple"," orange"," banana");
echo "original array";
echo"<br>";
for each($arr as $x)
{
    echo "$x";
}
echo "\n";
$ins value=" mango";
$postn=2;
array splice($arr,$postn,0,$insvalue);
echo"<br>";
echo "after insertion array is:";
echo"<br>";
for each($arr as $x)
{
    echo "$x";
}
?>
```

Output

Original array
Apple orange banana
After insertion array is:
Apple orange mango banana

10. Array sort

Aim: write a php program to sort multi-dimensional array set by a specific key

Program

```
<?php
Function column Sort ($unsorted, $column)
{
    $sorted = $unsorted;
    for ($i=0; $i < sizeof($sorted)-1; $i++) {
        for ($j=0; $j<sizeof($sorted)-1-$i; $j++)
            if ($sorted[$j][$column] > $sorted[$j+1][$column]) {
                $tmp = $sorted[$j];
                $sorted[$j] = $sorted[$j+1];
                $sorted[$j+1] = $tmp;
            }
        }
    }
    return $sorted;
}

$my_array = array();
$my_array[0]['name'] = 'Sana';
$my_array[0]['email'] = 'sana@example.com';
$my_array[0]['phone'] = '111-111-1234';
$my_array[0]['country'] = 'USA';
$my_array[1]['name'] = 'Robin';
$my_array[1]['email'] = 'robin@example.com';
$my_array[1]['phone'] = '222-222-1235';
$my_array[1]['country'] = 'UK';
$my_array[2]['name'] = 'Sofia';
$my_array[2]['email'] = 'sofia@example.com';
$my_array[2]['phone'] = '333-333-1236';
$my_array[2]['country'] = 'India';
print_r(column_Sort($my_array, 'name'));
?>
```

Output

Array

(

[0] => Array

(

[name] => Robin

[email] => robin@example.com

[phone] => 222-222-1235

[country] => UK

)

[1] => Array

(

[name] => Sana

[email] => sana@example.com

[phone] => 111-111-1234

[country] => USA

)

[2] => Array

(

[name] => Sofia

[email] => sofia@example.com

[phone] => 333-333-1236

[country] => India

)

11. String program

Aim: write a php script that receive string as a form input

1. Convert string to uppercase, lowercase
2. String first character uppercase
3. Reverse string
4. Length of the string
5. First character of all words in the string to uppercase

Program

```
<html>
<head>
<title>string to upper</title>
</head>
<body>
<form action="">
<input type="text" id="str" type="text" name="str" maxlength="10" size="26">
<input type="submit" name="submit" form method="POST">
</form>
<?php
if(isset($_POST['submit']))
{
$str=strtoupper($_POST['str']);
echo "convert to upper case ";
echo $str;
echo"<br>";

$str=ucfirst($_POST['str']);
echo "convert to first character uppercase ";
echo $str;
echo"<br>";

$str=strtolower($_POST['str']);
echo "convert to lower case ";
echo $str;
```

```

echo"<br>";
$str=strev($_POST['str']);
echo "reverse string ";
echo $str;
echo"<br>";
$str=strlen($_POST['str']);

echo "length of string ";
echo $str;
echo"<br>";
$str=ucwords($_POST['str']);

echo "first character captial of string ";
echo $str;
echo"<br>";
}
?>
</body>
</html>

```

Output

Convert to upper case HELLO DEAR

Convert to first character uppercase Hello dear

convert to lower case hello dear

Reverse string raed olleh

Length of string 10

First character capital of string Hello Dear

12. Constructor and destructor

Aim: write a php script to implement constructor and destructor

program

```
<?php
class Student
{
    Public $name;
    Public $rollno,$m1,$m2,$m3,$tm;
    function __construct($name,$rollno,$m1,$m2,$m3)
    {
        $this->name=$name;
        $this->rollno=$rollno;
        $this->m1=$m1;
        $this->m2=$m2;
        $this->m3=$m3;
        //$this->tm=$this->m1+$this->m2+$this->m3;
    }
    function __destruct()
    {
        echo "Destroying object";
        echo "<br>";
    }
    function show_details()
    {
        echo "Name of Student is". $this->name;
        echo "<br>";
        echo "Roll number is". $this->rollno;
        echo "<br>";
        echo "Mark1 :". $this->m1;
        echo "<br>";
        echo "Mark2 :". $this->m2;
        echo "<br>";
        echo "Mark3 :". $this->m3;
    }
}
```

```
        echo "<br>";
        echo "Total Mark is :".$this->tm=$this->m1+$this->m2+$this->m3;
        echo"<br>";
    }
}

$emp=new Student("Rakesh",3,34,35,36);
$emp->show_details();
echo "<br>";

$employee2=new Student("Vikas",7,23,24,25);
$employee2->show_details();

?>
```

Output

Name of Student is Rakesh

Roll number is3

Mark1:34

Mark2:35

Mark3:36

Total Mark is: 105

Name of Student is Vikas

Roll number is7

Mark1:23

Mark2:24

Mark3:25

Total Mark is: 72

Destroying object

Destroying object

13. File program

Aim: write a php program to upload a file

Program1:fileup.php

```
<!DOCTYPE html>
<html>
<body>
<form action="upload.php" method="post" enctype="multipart/form-data">
<input type="file" name="fileToUpload" id="fileToUpload">
<input type="submit" value="Upload Image" name="submit">
</form>
</body>
</html>
```

Program: 2

Upload.php

```
<?php
$target_dir = "uploads/";
$target_file = $target_dir . basename($_FILES["fileToUpload"]["name"]);
$uploadOk = 1;
$imageFileType = strtolower(pathinfo($target_file,PATHINFO_EXTENSION));
// Check if image file is a actual image or fake image
if(isset($_POST["submit"])) {
    $check = getimagesize($_FILES["fileToUpload"]["tmp_name"]);
    if($check !== false) {
        echo "File is an image - " . $check["mime"] . ".";
        $upload = 1;
    } else {
        echo "File is not an image.";
        $uploadOk = 0;
    }
}
?>
```

Select image to upload: 01 copy copy - Copy.JPG

File is an image - image/jpeg.

14: database creation

Aim. Write a php script to implement database creation

Program

```
<html>
<head>
<title>Create Database. </title>
</head>
<body>
<?php
$con=mysqli_connect("localhost", "root", "");
if(!$con)
{
die("not opened");
}
echo "Connection open."</br>";
$db="CREATE DATABASE data31";
if($con->query($db) ===TRUE)
{
    echo"Database created";
}
else
    echo "database not created".$con->error;
?>
</body>
</html>
```

Output

Connection open

Database created

15: table creation

Aim: write a php script to create table

Program

```
<html>
<head>
<title>Create Table. </title>
</head>
<body>
<?php
$con=mysqli_connect("localhost", "root","","data1");
if(!$con)
{
die("not opened");
}
echo "Connection open."<br>";

$q="create table computer(id INT not null,name varchar(50),branch varchar(50))";
if($con->query($q)===TRUE)
echo "Table computer created";
else
echo"error".$con->error;
?>
</body>
</html>
```

Output

Connection open

Computer table created