Assignment No.1

Set A

1)Create a HTML document to display the following screen.

```html
<!DOCTYPE html>
<html>
<head>
    <title>Document</title>
</head>

<body>
    <h2>List of indian state with their capital</h2>
    <dl>
        <dt>1.Delhi</dt>
        <dd>.New Delhi</dd>
        <dt>2.Hariyan</dt>
        <dd>.Chandigadh</dd>
        <dt>3.Gujrat</dt>
        <dd>.Gandhinagar</dd>
        <dt>4.Rajsthan</dt>
        <dd>.Jaypur</dd>
        <dt>5.Maharashtra</dt>
        <dd>.Mumbai</dd>
        <dt>6.UttarPradesh</dt>
        <dd>.Lucknow</dd>
    </dl>
</body>

</html>
```

2)Write a HTML code which generate the following output

```html
<!DOCTYPE html>
<html>
<head>
    <title>List of Books</title>
</head>
<body>
    <table border="2" cellpadding="4" bordercolordark="rad"
bordercolorligit="blue" align="center">
        <caption>list of book</caption>
        <tr>
            <th rowspan="2" align+"center">Item no</th>
            <th rowspan="2" align+"center">Item name</th>
        </tr>
```

```
        <tr>
            <th align="center"> Price</th>
        </TR>
        <tr>
            <td align="center">1</td>
            <td align="center">pragramming in Python</td>
            <td align="center">500.50</td>
        </tr>
        <tr>
            <td align="center">2</td>
            <td align="center">pragramming in Java</td>
            <td align="center">345.00</td>
        </tr>
    </table>
</body>

</html>
```

Set C

2) Design HTML 5 Page Using CSS Which Display the following Navigation Bar

```
<!Doctype html>
<html>
<head>
    <title>
        Make a Navigation Bar
    </title>
    <style type=text/css>
        body {
            height: 125vh;
            margin-top: 80px;
            padding: 30px;
            background-size: cover;
            font-family: sans-serif;
        }

        header {
            background-color: green;
            position: fixed;
            left: 0;
            right: 0;
            top: 5px;
            height: 30px;
            display: flex;
            align-items: center;
```

```
            box-shadow: 0 0 25px 0 black;
        }

        header * {
            display: inline;
        }

        header li {
            margin: 20px;
        }

        header li a {
            color: blue;
            text-decoration: none;
        }
    </style>
</head>

<body>
    <header>
        <ul>
            <li>
                <a href="#"> Home </a>
            </li>
            <li>
                <a href="#"> JAVA </a>
            </li>
            <li>
                <a href="#"> HTML </a>
            </li>
            <li> <a href="#"> CSS </a>
            </li>
</body>
</html>
```

Assignment No.3

Set A

2)Write a PHP script for the following: Design a form to accept a string.

a. Write a function to find the length of given string without using built in functions.

b. Write a function to count the total number of vowels i.e. (a,e,i,o,u)) from the string.

c. Convert the given string to lowercase and then to Title case.

d. Pad the given string with "*" from left and right both the sides.

e. Remove the leading whitespaces from the given string

f. Find the reverse of given string.(use built-in functions)

(Use radio buttons and the concept of function. Use 'include' construct or 'require' stmt.)

HTML (Vowel.html)

```html
<html>
<body>
    <form method="GET" action="vowel.php">
        Enter the String : <input type="text" name="inputStr"><br>
        <input type="submit" name="Submit">
    </form>
</body>
</html>
```

PHP(Vowel.php)

```php
<?php

$string = $_GET['inputStr'];

$vowels = array("a"=>0,"e"=>0,"i"=>0,"o"=>0,"u"=>0);

for($i=0; $i<strlen($string); $i++) {
if(strtolower($string[$i]) == 'a') {
++$cnt;
++$vowels['a'];
}
if(strtolower($string[$i]) == 'e') {
++$cnt;
++$vowels['e'];
}
if(strtolower($string[$i]) == 'i') {
++$cnt;
++$vowels['i'];
}
if(strtolower($string[$i]) == 'o') {
++$cnt;
++$vowels['o'];
}
if(strtolower($string[$i]) == 'u') {
++$cnt;
++$vowels['u'];
```

```php
        }
    }

echo "<h1>Total number of vowels found : ".$cnt."<h1>";
echo "Occurence of 'a' : ".$vowels['a']."<br>";
echo "Occurence of 'e' : ".$vowels['e']."<br>";
echo "Occurence of 'i' : ".$vowels['i']."<br>";
echo "Occurence of 'o' : ".$vowels['o']."<br>";
echo "Occurence of 'u' : ".$vowels['u']."<br>";
$str=strrev($string);
$a=strlen($string);
$f=0;
for($j=0;$j<$a;$j++)
{
    if($str[$j]==$string[$j])
    {
        $f=0;
    }
    else
    {
        $f=1;
        break;
    }
}
if($f==0)
{
    echo"string is palindrome";
}
else
{
    echo"string is not palindrome";
}
?>
```

Set B

1)Write a PHP script for the following: Design a form to accept two strings from the user.

a. Find whether the small string appears at the start of the large string.

b. Find the position of the small string in the big string.

c. Compare both the string for first n characters, also the comparison should not be case sensitive.

HTML (accstring.html)

```html
<html>

<head>
    <title>php program</title>
</head>

<body bgcolor='#f1284e'>
    <form action='accstring.php' method='post'>
        <pre>
Enter 1'st string          :<input type='text' name='str1'><br>



Enter 2'nd string          :<input type='text' name='str2'><br>



Enter string to replace small string     :<input type='text' name='str'><br>



        <input type='radio' name='ch' value=1>first and last occurence<br>
        <input type='radio' name='ch' value=2>total occurence<br>
        <input type='radio' name='ch' value=3>replace<br>
        <input type=submit value= 0k ><input type=reset value=cancel></h2>
</pre>
    </form>
</body>
</html>
```

PHP (accstring.php)

```php
<?php
        $str1=$_POST['str1'];
        $str2=$_POST['str2'];
        $str=$_POST['str'];
        $ch=$_POST['ch'];
        $oc=0;

        echo"<br>string1:: $str1<br>string2:: $str2<br>string for replace::
$str</b><br>";
        if($str1>$str2)
        {
        switch($ch)
                {
                case 1: echo"<br>First occ is at possition :";echo
strpos($str1,$str2);
                        echo"<br>Last  occ is at possition :";echo
strrpos($str1,$str2);
                        break;
                case 2:$oc=substr_count($str1,$str2);
```

```php
                        if($oc==0)
                                echo"<br>string '$str2' not present in string
'$str1'<br>";
                        else
                                echo"<br>sub string '$str2' present $oc times
in string '$str1'<br>";
                        break;
                case 3:
                                $str3=str_replace($str2,$str,$str1);
                                echo"<br>After relacing string is::$str3";
                        break;
                }
        }
        else
        {
        switch($ch)
                {
                 case 1:echo"<br>First occ is at position :";echo
strpos($str2,$str1);
                        echo"<br>Last occ is at possition :";echo
strrpos($str2,$str1);
                        break;
                case 2:$oc=substr_count($str2,$str1);
                        if($oc==0)
                                echo"<br>string '$str1' not present in string
'$str2'.<br>";
                        else
                                echo"<br>sub string '$str1' present $oc times
in string '$str2'.<br>";
                        break;
                case 3:
                                $str3=str_replace($str1,$str,$str2);
                                echo"<br>After relacing string::'$str3'.";
                        break;
                }
        }
?>
<h1><a href='accstring.html'>go back</a></h1>
```

Set C

1)Write a PHP script for the following: Design a form to accept the marks of 5 different subjects of a student, havingserial number, subject name & marks out of 100. Display the result in the tabular

format which will have total, percentage and grade. Use only 3 text boxes.(Use arrayof form parameters)

```php
<?php
// PHP Script to Calculate Total Marks of Student and Display Grade

// These are the marks of five subjects
$sub_1 = 95;
$sub_2 = 85;
$sub_3 = 74;
$sub_4 = 64;
$sub_5 = 53;

$total = NULL;
$average = NULL;
$percentage = NULL;
$grade = NULL;

// It will calculate total, average, percentage, and grade
$total = $sub_1 + $sub_2 + $sub_3 + $sub_4 + $sub_5;
$average = $total / 5.0;
$percentage = ($total / 500.0) * 100;

if ($average >= 90)
    $grade = "A";
else if ($average >= 80 && $average < 90)
    $grade = "B";
else if ($average >= 70 && $average < 80)
    $grade = "C";
else if ($average >= 60 && $average < 70)
    $grade = "D";
else
    $grade = "E";

// It will print the final output
echo "The Total marks   = " . $total . "/500\n";
echo "The Average marks = " . $average . "\n";
echo "The Percentage    = " . $percentage . "%\n";
echo "The Grade         = '" . $grade . "'\n";

?>
```

Assignment No.4

Set A

Write a script to accept two integers(Use html form having 2 textboxes).

Write a PHP script to,

a. Find mod of the two numbers.

b.Find the factorial of second number.

(Write separate function for each of the above operations.)

```php
////a.Find mod of the two numbers.
<?php
function without_mod($m, $n)
{
    $divides=(int)($m/$n);
    return $m-$n*$divides;
}
echo without_mod(13, 2)."\n";
echo without_mod(81, 3)."\n";
?>

/////b.Find the factorial of second number.
<?php
$num = 4;
$factorial = 1;
for ($x=$num; $x>=1; $x--)
{
  $factorial = $factorial * $x;
}
echo "Factorial of $num is $factorial";
?>
```

2)Write a menu driven program to perform the following stack and queue related

operations:[Hint: use Array_push(), Array_pop(), Array_shift(), Array_unshift()]

a) Insert an element in stack

b) Delete an element from stack

c) Display the contents of stack

d) Insert an element in queue

e) Delete an element from queue

f) Display the contents of queue

HTML(stackqueue.html)

```html
<html>
<body bgcolor=skyblue>
<form action="stackqueue.php" method="post">
Enter choice :
<br><input type="radio" name="ch" value=1> Insert element in stack <br>
<input type="radio" name="ch" value=2> Delete element from stack <br>
<input type="radio" name="ch" value=3> Display content of stack <br>
<input type="radio" name="ch" value=4> Insert element in queue<br>
<input type="radio" name="ch" value=5> Delete element from queue <br>
<input type="radio" name="ch" value=6> Display content of queue <br>
<br>
<input type="submit" value="submit">
<input type="reset" value="reset">
</body>
</html>
```

PHP (stackqueue.php)

```php
<html>
<body bgcolor="gold">
<?
$choice=$_POST['ch'];
{
        $arr=array(1,2,3,4,5,6,7,8,9,10);
        switch($choice)
        {
                case 1:
                        array_push($arr,10);
                        print_r($arr);
                        break;
                case 2:
                        $ele=array_pop($arr);
                        echo "Poped element : $ele";
                        break;
                case 3:
                        print_r($arr);
                        break;
                case 4:
                        array_unshift($arr,"10");
                        print_r($arr);
                        break;
                case 5:
                        $ele=array_shift($arr);
```

```
                    echo "Deleted element : $ele";
                    break;
            case 6:
                    print_r($arr);
                    break;
        }
}
```

Set B

1)Write a PHP script that inserts a new item in an array at any position.

(hint : use array_splice())

```php
<?php
$original_array = array( '1', '2', '3', '4', '5' );

echo 'Original array : ';
foreach ($original_array as $x)
{
echo "$x ";
}

echo "\n";


$inserted_value = '11';


$position = 2;



array_splice( $original_array, $position, 0, $inserted_value );

echo "After inserting 11 in the array is : ";
foreach ($original_array as $x)
{
echo "$x ";
}
?>
```

2) Define an array. Find the elements from the array that matches the given

value using appropriate search function.

HTML(arraysearch.html)

```html
<html>

<head>
    <meta http-equiv="pragma" content="no-cache">
</head>

<body bgcolor="gold">
    <form action="arraysearch.php" method="post">

        Enter Number :<br>
        <input type="text" name='no'>
        <br><br>
        <input type="submit" name="SUBMIT"> <input type='reset' name='CANCLE'>
    </form>

    <body>

</html>
```

PHP(arraysearch.php)

```php
<?php
$no=$_POST['no'];
if(empty($no))
{
        echo "Enter all data::";
        echo "<br><a href='arraysearch.html'>Back</a>";
}
else
{
        $arr=array(1,2,3,4,5,6,7,7,8,9,10);
        print_r($arr);
        echo "<br><br><br>";
        if(in_array($no,$arr))
                echo "$no occured in array";
        else
                echo "$no not occured in array";
}
?>
```

Set C

2) Write a menu driven program to perform the following operations on associative arrays:

a) Split an array into chunks

b) Sort the array by values without changing the keys.

c) Filter the odd elements from an array.

d) Merge the given arrays.

e) Find the intersection of two arrays.

f) Find the union of two arrays.

g) Find set difference of two arrays.

HTML (ass_array.html)

```html
<html>
<body bgcolor="skyred">
<form action="ass_array.php" method="post">
<h2>Enter choice :</h2>
<input type="radio" name="ch" value=1> Sort array by values in
ascending,descending order<br>
<input type="radio" name="ch" value=2> Sort array by values without changing
key values <br>
<input type="radio" name="ch" value=3> Filter odd elements from array <br>
<input type="radio" name="ch" value=4> Sort different array at glance using
single function<br>
<input type="radio" name="ch" value=5> Merge given two arrays <br>
<input type="radio" name="ch" value=6> Find intersection of two array <br>
<input type="radio" name="ch" value=7> Find union of two array <br>
<input type="radio" name="ch" value=8> Find set difference of two array <br>
<br>
<input type="submit" value="SUBMIT">  <input type="reset" value="CLEAR">
</body>
</html>
```

PHP(ass_array.php)

```html
<html>
```

```php
<body bgcolor="gold">

<?php
function is_odd($var)
{
if($var%2==1)
return $var;
}


$choice=$_POST['ch'];

        $arr=array('a'=>1,'b'=>2,'c'=>3,'d'=>4,'e'=>5,'f'=>6,'g'=>7,'h'=>8);
        $arr1=array('l'=>11,'m'=>22,'n'=>33,'o'=>44,'p'=>55,'q'=>66,'r'=>77,'s
'=>88);
        $arr2=array('a'=>10,'b'=>20,'c'=>30,'d'=>40,'e'=>50,'f'=>60,'g'=>70,'h
'=>80);
        switch($choice)
        {
                case 1:
                        sort($arr);
                        echo "Array in ascending order:<br>";
                        print_r($arr);
                        rsort($arr);
                        echo "<br>Array in descending order:<br>";
                        print_r($arr);
                        break;
                case 2:
                        asort($arr);
                        echo "Array in ascending order:<br>";
                        print_r($arr);
                        arsort($arr);
                        echo "<br>Array in descending order:<br>";
                        print_r($arr);
                        break;
                case 3:
                        print_r(array_filter($arr,'is_odd'));
                        break;
                 case 4:
                        array_multisort($arr,0,$arr1,1,$arr2,0);
                        print_r($arr);
                        echo "<br>";
                        print_r($arr1);
                        echo "<br>";
                        print_r($arr2);
                        echo "<br>";
                        break;
                case 5:
```

```php
                print_r(array_merge($arr,$arr1));
                break;
        case 6:
                print_r(array_intersect($arr,$arr1));
                break;
        case 7:
                $union=array_merge($arr,$arr1);
                print_r(array_unique($union));
                break;
        case 8:
                print_r(array_diff($arr,$arr1));
                break;
    }

    echo "<br><a href ='a2c2.html'> RETURN</a>";
?>
</font>
</body>
</html>
```

Assignment No.5

Set B

1)Write a program to read a flat file "item.dat", which contains details of 5 different items such as Item code, Item Name, unit sold, and Rate. Display the Bill in tabular format.

HTML(itemdat.html)

```html
<html>

<head>
    <title></title>
</head>

<body bgcolor="green">
    <form action="itemdat.php" method="POST">
        <h1>Reading flat file and display data in tabular form.</h1>
        <br>
        <br>
        <hr>
        <h3>Enter directory name(containing file student.dat):<input
type="text" name='d'></h3>

        <pre>
```

```
<input type="submit" name="submit" value="submit">
<input type="reset" name="reset'" value="reset">

</pre>
    </form>

</body>

</html>
```

PHP(itemdat.php)

```php
<?php
{
if (file_exists('student.dat'))

$f=fopen('student.dat','r');

echo "<br/><br/><br/>";

echo "<table border type=3 align=center>";
echo "<tr><td colspan=7 align=center><h3>Student Records.</h3></td></tr>";
echo "<tr><td align=center>Roll no.</td>";
echo "<td align=center>Name.</td>";
echo "<td align=center>Electronics</td>";
echo "<td align=center>Computer.</td>";
echo "<td align=center>Maths</td>";
echo "<td align=center>Total.</td>";
echo "<td align=center>Percentage.</td></tr>";
while(!feof($f))
{

$d= fgets($f);
$s=explode(' ',$d);

if(!empty($s[0]) && !empty($s[1]) && !empty($s[2]) && !empty($s[3]) &&
!empty($s[4]))
{

$m1=$s[2];
$m2=$s[3];
$m3=$s[4];
$total=$m1+$m2+$m3;
$p=($total/300)*100;

echo "<tr><td align=center>$s[0]</td>";
echo "<td align=center>$s[1]</td>";
echo "<td align=center>$m1</td>";
```

```php
echo "<td align=center>$m2</td>";
echo "<td align=center>$m3</td>";
echo "<td align=center>$total</td>";
echo "<td align=center>$p %</td></tr>";
}
}
echo "</table>";
}

?>
```

2)Considerer the following entities and their relationships

Student (Stud_id,name,class)

Competition (c_no,c_name,type)

Relationship between student and competition is many-many with attribute rank and year. Create a

RDB in 3NF for the above and solve the following. Using above database write a script in PHP to

accept a competition name from user and display information of student who has secured 1st rank in that

competition.

HTML(StudCom.html)

```html
<html>

<body>
    <form method="get" action="studcomp.php">
        <fieldset>
            <legend>Enter Competition Name :</legend><br>
            <input type="text" name="cnm"><br><br>
        </fieldset>
        <div align="center">
            <input type="submit" value="Show Result">
        </div>
    </form>
</body>

</html>
```

PHP(StudCom.php)

```php
<?php
        $cnames=$_GET['cnm'];

                        $hn="localhost";
                        $un="root";
                        $pass="";
                        $db="students";

                        $link=mysqli_connect($hn,$un,$pass,$db);
        if(!$link)
        {
                        die('Connection Failed:'.mysqli_error());
        }
        //$sql="SELECT * FROM student WHERE CNo IN (SELECT CNo FROM
competition WHERE CName = '".$cname."')";
        $sql="select * from student,competition,studcomp where
student.Sid=studcomp.Sid and competition.CNo=studcomp.CNo and rank='1' and
CName='".$cnames."'";
        $res=mysqli_query($link,$sql);

        if(mysqli_num_rows($res)>0)
        {
                        while($row=mysqli_fetch_assoc($res))
        {
                                echo"Stud No :
".$row['Sid']."<br>"."  Name   : ".$row['SName']."<br>";
                                echo"Class :   ".$row['SClass']."<br>";
                                echo"-------------------------"."<br>";
                }
        }
        else
        {
                        echo"error";
        }
        mysqli_close($link);

?>
```

Set C

1)Write a menu driven program to perform various file operations. Accept filename from user.

a) Display type of file.

b) Display last access time of file

c) Display the size of file

d) Delete the file

HTML(file.html)

```html
<html>
<form action="file.php" method="post">
    <input type=file name=file></br>
    <input type="radio" name="b" value="1">1.DISPLAY SIZE OF FILE<br>
    <input type="radio" name="b" value="2">2.DISPLAY LAST ACCESSED TIME OF
FILE<br>
    <input type="radio" name="b" value="3">3.DISPLAY TYPE OF FILE<br>
    <input type="radio" name="op" value="2">4.Delete a file<br>
    <input type="submit" name="submit" value="submit"><br>
</form>

</html>
```

PHP(file.php)

```php
<?php

$file=$_POST['file'];

$file1=$_POST['file1'];

$dir=$_POST['dir'];

$c=$_POST['b'];

$db=opendir($dir);

switch($c)

    {

        case 1 :

                    $size=filesize("$file");

                    echo "the size of file is:$size";

                    break;

        case 2:
```

```php
            $a=fileatime($file);

            echo "last accessed time of file  is :$a<br>";



            break;


    case 3:

            $t=filetype($file);

            echo "type of file is :$t";

            break;



    case 4 :
                $d=filedelete($file);
                 echo "Deleted file is : $d";
                 Break;

    default:"invalid choice";

}

?>
```

Consider the following entities and their relationships

Doctor (doc_no, doc_name, address, city, area)

Hospital (hosp_no, hosp_name, hosp_city)

Doctor and Hospital are related with many-many relationship. Create a RDB in 3 NF for the above and solve following Using above database, write a PHP script which accepts hospital name and print information about doctors visiting/working in that hospital in tabular format.

```html
<html>
<center>
    <form method=GET action=hospital.php>
        Hospital Name : <input type=text name=hname>
        <input type=submit value=Submit>
    </form>
</center>

</html>
```

```php
/////hospital.php
<?php

$hname = $_GET['hname'];

$db = pg_connect("host=localhost dbname=Slips user=hp password= ");
if($db)
{
$query = "select * from doc where dno in(select dno from doc_hosp where hno
in(select hno from hosp where
hname='$hname'))";
$resultSet = pg_query($db,$query);
echo "<h1>Doctor from hospital $hname are ...</h1>";
echo "<table style=height:400;width:400; border=3>";
echo "<tr><th>Dno</th>";
echo "<th>Name</th>";
echo "<th>Address</th>";
echo "<th>City</th></tr>";
while(($row = pg_fetch_array($resultSet)) != null)
{
echo "<tr><td>".$row['dno']."</td>";
echo "<td>".$row['dname']."</td>";
echo "<td>".$row['addr']."</td>";
echo "<td>".$row['city']."</td></tr>";
}
echo "</table>";
```

```
}

?>
```