



TECHNO INDIA UNIVERSITY
WESTBENGAL

Department of Computer Applications

(MCA 1C)

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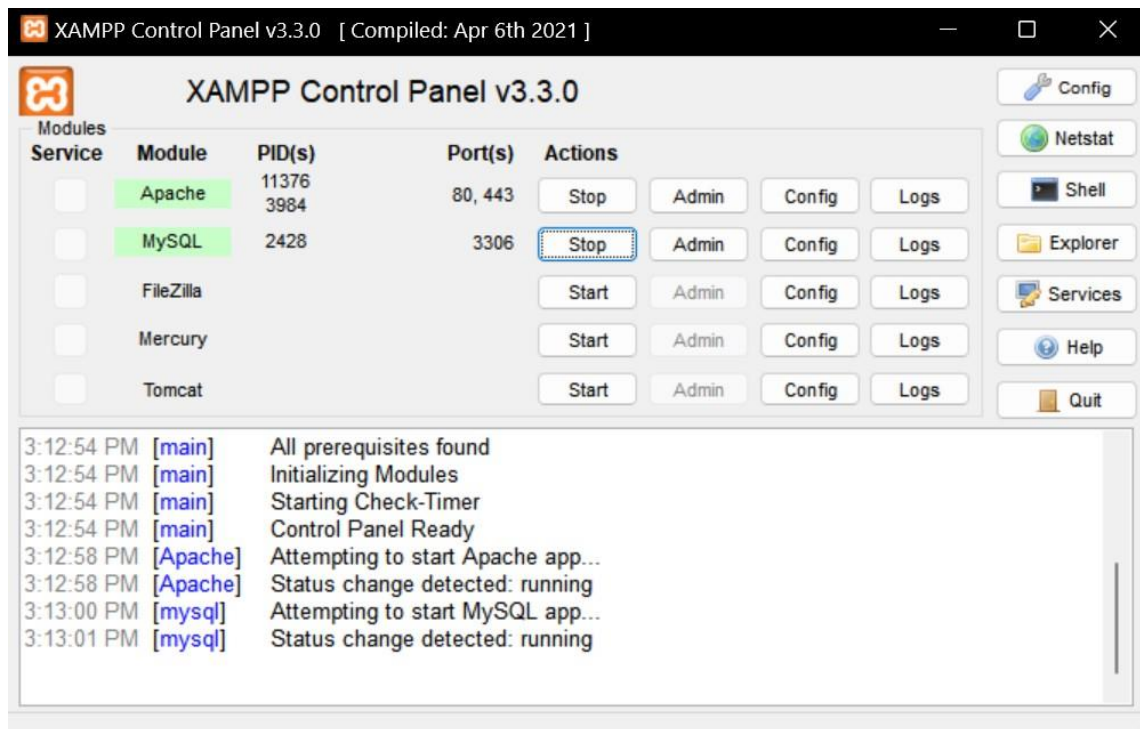
SEMESTER : 2

**SUBJECT : PHP LAB
ASSIGNMENT**

SESSION : 2023-25

ASSIGNMENT-1

1. Show the working of the XAMPP Control Panel.



2. Show the working of Var dump in php.

Code:

```
<?php
$variable="Hello World!";
var_dump($variable);
?>
```

Output:

```
string(12) "Hello World!"
```

ASSIGNMENT-2

1. Write a php code to demonstrate the working of max, pow, sqrt, floor, ceil, round, min, strlen, str_word_count, strrev, strpos, str_replace, abs, fmod, intdiv, log, mt_rand, pi, acos, asine and exp functions.

Code:

```
<?php
echo "max(20,57,64,13)=" .max(20,57,64,13);
echo "<br>";
echo "pow(2,5)=" .pow(2,5);
echo "<br>";
echo "sqrt(4)=" .sqrt(4);
echo "floor(4.9)=" .floor(4.9);
echo "<br>";
echo "ceil(3.8)=" .ceil(3.8);
echo "<br>";
echo "round(4.2)=" .round(4.2);
echo "<br>";
echo "min(49,41,40)=" .min(49,41,40);
echo "<br>";
echo "strlen(Hello World!)= " . strlen("Hello World!");
echo "<br>";
echo "str_word_count( Welcome to php
class)=" .str_word_count(" Welcome to php class");
echo "<br>";
echo "strrev(Hello world!)=" .strrev("Hello world!");
echo "<br>";
echo "4isney(Hello world!,world)=" .strpos("Hello
world!","world");
echo "<br>";
echo "str_replace(world,4isney,Hello
world!)=" .str_replace("world","4isney","Hello world!");
```

```

echo "abs(4.7)=" .abs(4.7);
echo "<br>";
echo "(fmod(15,6))=" .(fmod(15,6));
echo "<br>";
echo "(intdiv(8,4))=" .(intdiv(8,4));
echo "<br>";
echo "(log(2.7183))=" .(log(2.7183));
echo "<br>";
echo "(mt_rand(10,100))=" .(mt_rand(10,100));
echo "<br>";
echo "(pi())=" .(pi());
echo "(acos(0.4))=" .(acos(0.4));
echo "<br>";
echo "(asin(0.4))=" .(asin(0.4));
echo "<br>";
echo "(exp(4.8))=" .(exp(4.8));
?>

```

Output:

```

max(20,57,64,13)=64
pow(2,5)=32
sqrt(4)=2floor(4.9)=4
ceil(3.8)=4
round(4.2)=4
min(49,41,40)=40
strlen>Hello World!)= 12
str_word_count( Welcome to php class)=4
strrev>Hello world!)=!dlrow olleH
strpos>Hello world!,world)=6
str_replace(world,disney>Hello world!)=Hello disney!abs(4.7)=4.7
(fmod(15,6))=3
(intdiv(8,4))=2
(log(2.7183))=1.000006684914
(mt_rand(10,100))=99
(pi())=3.1415926535898(acos(0.4))=1.1592794807274
(asin(0.4))=0.41151684606749
(exp(4.8))=121.51041751873

```

ASSIGNMENT-3

1. Receive a message according to hours using IF Else in php.

Code:

```
<?php
$t=date("H");
if($t<"20"){
echo "Have a good day!";
}
else{
echo "Have a good night!";
}
?>
```

Output:

Have a good day!

2. A php code for vote eligibility test.

Code:

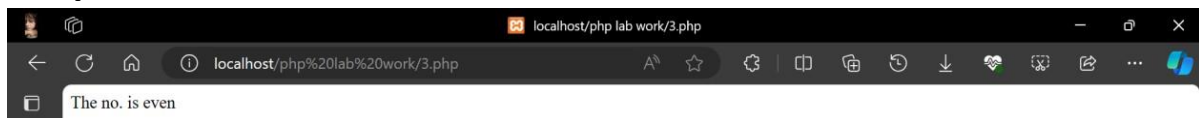
```
<?php
$age=23;
$nationality="Indian";
if($nationality=="Indian")
{
if($age>=18){
echo "Eligible to give vote";
}
else{
echo "Not Eligible";
}
}
?>
```

Output:

Eligible to give vote

3. A php code to check odd or even number.**Code:**

```
<?php
$a=4;
if($a%2==0){
    echo "The no. is even";
}
else
{
    echo "The no. is odd";
}
```

Output:**4. A php code to find favorite color using switch case.****Code:**

```
<?php
$favcolor="blue";
switch($favcolor){
    case "red":
        echo "Your favourite color is red!";
        break;
    case "blue":
        echo "Your favourite color is blue!";
        break;
    default:
        echo "no color on the list is your favourite!";
}
```

```
break;  
}  
?>
```

Output:

Your favourite color is blue!

5. A php code to print the birth month using switch case.**Code:**

```
<?php  
$bm="10";  
switch($bm){  
case 1:  
echo "Your birth month is January";  
break;  
case 2:  
echo "Your birth month is February";  
break;  
case 3:  
echo "Your birth month is March";  
break;  
case 4:  
echo "Your birth month is April";  
break;  
case 5:  
echo "Your birth month is May";  
break;  
case 6:  
echo "Your birth month is June";  
break;  
case 7:  
echo "Your birth month is July";  
break;  
case 8:
```

```
echo "Your birth month is August";  
break;  
case 9:  
echo "Your birth month is September";  
break;  
case 10:  
echo "Your birth month is October";  
break;  
case 11:  
echo "Your birth month is November";  
break;  
case 12:  
echo "Your birth month is December";  
break;  
default:  
echo "Invalid month";  
break;  
}  
?>
```

Output:

Your birth month is October

6. A php code to grade using switch case.**Code:**

```
<?php  
$avg=34;  
switch($avg){  
case ($avg > 70):  
echo "Grade A";  
break;
```



```
case ($avg>=60 && $avg<=69):  
echo "Grade B";  
break;  
case ($avg>=50 && $avg<=59):  
echo "Grade C";  
break;  
default:  
echo "Not taken the exam.";  
break;  
}  
?>
```

Output:

Not taken the exam.

7. A php code demonstrating while loop from 1 to 5.

Code:

```
<?php  
$x=1;  
while($x<=5){  
echo "The number is: $x <br>";  
$x++;  
}  
?>
```

Output:

The number is: 1
The number is: 2
The number is: 3
The number is: 4
The number is: 5

8. A php code to show fibonnaci series upto 15 using while loop.

Code:

```
<?php
$n=0;
$a=0;
$b=1;
echo "Fibonnaci series upto 15:";
echo $a.", ". $b;
while($n < 16){
    $c=$b+$a;
    echo ",";
    echo"$c";
    $a=$b;
    $b=$c;
    $n=$n+1;
}
?>
```

Output:

Fibonnaci series upto 15:0,1,1,2,3,5,8,13,21,34,55,89,144,233,377,610,987,1597

ASSIGNMENT 4

1. Show the use of for loop.

Code.

```
<?php
for($x=0; $x<=10;$x++){
    echo "The number is: $x <br>";
}
?>
```

Output.

The number is: 0
The number is: 1
The number is: 2
The number is: 3
The number is: 4
The number is: 5
The number is: 6
The number is: 7
The number is: 8
The number is: 9
The number is: 10

2. Show the use of foreach loop.

Code.

```
<?php
$colors=array("Red","Blue","Green","Yellow");
foreach($colors as $value){
    echo "$value<br>";
}
?>
```

Output.

Red
Blue
Green
Yellow

3. Show the use of foreach loop in seasons.

Code.

```
<?php
$seasons=array("Summer","Winter","Autumn","Rainy");
foreach($seasons as $value){
    echo "$value<br>";
}
?>
```

Output.

Summer
Winter
Autumn
Rainy

4. Show how to access array elements in a for loop.

Code.

```
<?php
$cars=array("Volvo","BMW","TOYOTA");
echo "I like ".$cars[0].", ".$cars[1]. " and ".$cars[2]. ". <br>";
echo "No.of cars: ".count($cars). "<br>";
$length=count($cars);
for($x=0;$x<$length;$x++){
    echo $cars[$x];
    echo "<br>";
}
?>
```

Output.

I like Volvo, BMW and TOYOTA.
No.of cars: 3
Volvo
BMW
TOYOTA

5. Show an example of associative array.

Code.

```
<?php
$age= array("Peter"=>"35","Ben"=>"37","Joe"=>"43");
echo "Peter is ".$age['Peter']." years old.<br>";
foreach($age as $x =>$val){
    echo "key = ".$x.", value = ".$val;
    echo "<br>";
}
?>
```

Output.

```
Peter is 35 years old.
key = Peter, value =35
key = Ben, value =37
key = Joe, value =43
```

6. Display the name, email, age and gender of a student using associative array.

Code.

```
<?php
$student= array("Name"=>"Chandrika
Dutta","Email"=>"cd02102001@gmail.com","Age"=>"22","Gender"=>"F
emale");
foreach($student as $key =>$element){
    echo $key.": ".$element;
    echo "<br>";
}
?>
```

Output.

```
Name: Chandrika Dutta
Email: cd02102001@gmail.com
Age: 22
Gender: Female
```

ASSIGNMENT 5

1. Display the usage of rsort() and sort() function on an array of cars.

Code:

```
<?php
$cars=array("Volvo","BMW","TOYOTA","AUDI","BENZ","SUZUKI");
rsort($cars);
$c=$cars;
$clength=count($cars);
echo "Rsort: <br>";
for($x=0;$x<$clength;$x++){
echo $cars[$x] ;
echo"<br>";
}
echo "<br>Sort: <br>";
sort($c);
$clength=count($c);
for($x=0;$x<$clength;$x++){
echo $c[$x] ;
echo"<br>";
}
?>
```

Output:

```
Rsort:
Volvo
TOYOTA
SUZUKI
BMW
BENZ
AUDI
```

```
Sort:
AUDI
BENZ
BMW
SUZUKI
TOYOTA
Volvo
```

2. Display the usage of rsort() and sort() function on an array of cars.

Code:

```
<?php
$numbers=array(4,6,2,22,11,15,19);
$no=$numbers;
sort($numbers);
rsort($no);
$clength=count($numbers);
echo "Sort: <br>";
for($x=0;$x<$clength;$x++){
echo $numbers[$x] ;
echo"<br>";
}
echo "<br>Rsort: <br>";
$clength=count($no);
for($y=0;$y<$clength;$y++){
echo $no[$y] ;
echo"<br>";
}
?>
```

Output:

Sort:

2
4
6
11
15
19
22

Rsort:

22
19
15
11
6
4
2

3. Perform ksort(), arsort(), krsort(), asort() on an associative array.

Code:

```
<?php
$age=array("Peter"=>"35","Ben"=>"37","joe"=>"43",
"Milon"=>"29","Rohan"=>"31");
ksort($age);
arsort($age);
krsort($age);
asort($age);
$alen=count($age);
echo "ksort: <br>";
foreach($age as $x=>$val){
echo "key=".$x.",value=".$val;
echo "<br>";
}
?>
```

Output:

```
ksort:
key=Ben,value=37
key=Milon,value=29
key=Peter,value=35
key=Rohan,value=31
key=joe,value=43
```

```
arsort:
key=joe,value=43
key=Ben,value=37
key=Peter,value=35
key=Rohan,value=31
key=Milon,value=29
```

```
krsort:
key=joe,value=43
key=Rohan,value=31
key=Peter,value=35
key=Milon,value=29
key=Ben,value=37
```

```
asort:
key=Milon,value=29
key=Rohan,value=31
key=Peter,value=35
key=Ben,value=37
key=joe,value=43
```


4. Apply sort() and rsort() on an array of fruits.

Code:

```
<?php
$fruits=array("Apple","Banana","Guava","Kiwi","Grapes","Dates","Orange"
,"Lemon","Cucumber","Potato","TOmato");
$f=$fruits;
sort($fruits);
rsort($f);
$clength=count($fruits);
echo "Sort: <br> ";
for($x=0;$x<$clength;$x++){
echo $fruits[$x] ;
echo"<br>";
}
echo "<br>";
echo "rsort: <br>";
$clength=count($f);
for($y=0;$y<$clength;$y++){
echo $f[$y] ;
echo"<br>";
}
?>
```

Output:

Sort:	Rsort:
Apple	TOmato
Banana	Potato
Cucumber	Orange
Dates	Lemon
Grapes	Kiwi
Guava	Guava
Kiwi	Grapes
Lemon	Dates
Orange	Cucumber
Potato	Banana
TOmato	Apple

5. Apply `sort()`, `rsort()`, `asort()`, `arsort()`, `ksort()`, `krsort()`, `natsort()`, `shuffle()` and `natcasesort()` on an associative array.

Code:

```
<?php
$age=array("James"=>"25","Rama"=>"25","Alice"=>"15","Mary"=>"30",
"Radha"=>"20");
sort($age);
rsort($age);
asort($age);
arsort($age);
ksort($age);
krsort($age);
natsort($age);
shuffle($age);
natcasesort($age);
// echo "Sort_name: ";
foreach($age as $x=>$val){
echo "key=" . $x . ",value=" . $val;
echo "<br>";
}
?>
```

Output:

Sort_name: Sort	Sort_name: rsort	Sort_name: asort	Sort_name: arsort
key=0,value=15	key=0,value=30	key=Alice,value=15	key=Mary,value=30
key=1,value=20	key=1,value=25	key=Radha,value=20	key=James,value=25
key=2,value=25	key=2,value=25	key=James,value=25	key=Rama,value=25
key=3,value=25	key=3,value=20	key=Rama,value=25	key=Radha,value=20
key=4,value=30	key=4,value=15	key=Mary,value=30	key=Alice,value=15

Sort_name: ksort	Sort_name: krsort	Sort_name: natsort	Sort_name: natcasesort
key=Alice,value=15	key=Rama,value=25	key=Alice,value=15	key=0,value=30
key=James,value=25	key=Radha,value=20	key=Radha,value=20	key=1,value=25
key=Mary,value=30	key=Mary,value=30	key=James,value=25	key=2,value=20
key=Radha,value=20	key=James,value=25	key=Rama,value=25	key=3,value=25
key=Rama,value=25	key=Alice,value=15	key=Mary,value=30	key=4,value=15

6. Show the working of usort() and uasort() in an array.

Code:

```
<?php
function my_sort($a,$b){
if ($a== $b)
return 0;
return ($a<$b)?-1:1;
}
$a=array(4,2,8,6);
usort($a,"my_sort");
uasort($a,"my_sort");
echo "usort: <br>";
foreach ( $a as $key => $val){
echo "[" . $key . "]=>" . $val;
echo "<br>";
}
?>
```

Output:

```
usort:
[0]=>2
[1]=>4
[2]=>6
[3]=>8
```

```
uasort:
[1]=>2
[0]=>4
[3]=>6
[2]=>8
```

7. Display the use of natcasesort() function in an array.

Code:

```
<?php
$arr1=array("Riya","Priya","Siya","Piya");
$arr2=$arr1;
sort($arr1);
echo "Standard Sorting<br>";
print_r($arr1);
natcasesort($arr2);
echo "<br>Natural Ordering Case Insensitive<br>";
print_r($arr2);
?>
```

Output:

Standard Sorting

Array ([0] => Piya [1] => Priya [2] => Riya [3] => Siya)

Natural Ordering Case Insensitive

Array ([3] => Piya [1] => Priya [0] => Riya [2] => Siya)

8. Print a statement as which animals are omnivores and carnivores also count the no.of elements in the list and print the element in each line with the help of for loop.

Code:

```
<?php
$animals=array("Bears", "Lions","Crows", "Wolves", "Pigs", "Humans");
$omni=array();
$carn=array();
foreach ($animals as $animal){
    if($animal=="Humans" || $animal=="Crows"){
        $omni[]=$animal;
    }
    else{
        $carn[]=$animal;
    }
}

echo "Omnivores: ".implode(", ", $omni)."<br>";
echo "Carnivores: ".implode(", ", $carn)."<br>";
echo "Total omnivores: " . count($omni);
echo "Total carnivores: " . count($carn);
?>
```

Output:

Omnivores: Crows, Humans
Carnivores: Bears, Lions, Wolves, Pigs
Total omnivores: 2
Total carnivores: 4

9. Write a code to count and display the number of fruits in an array and also print the direction along with the name of the fruit.

Code:

```
<?php
$fruits=array( "Apple"=>"North", "Banana"=>"South", "Cherry"=>"East",
    "Grapes"=>"West",
    "Orange"=>"Northeast"
);
$no=count($fruits);
echo "Number of fruits: $no<br>";
echo "Directions: <br>";
foreach ($fruits as $fruit => $direction){
    echo "Fruit name ==> $fruit<br>";
    echo "Direction ==> $direction<br>";
}
?>
```

Output:

```
Number of fruits: 5
Directions:
Fruit name ==> Apple
Direction ==> North
Fruit name ==> Banana
Direction ==> South
Fruit name ==> Cherry
Direction ==> East
Fruit name ==> Grapes
Direction ==> West
Fruit name ==> Orange
Direction ==> Northeast
```

Assignment 6

1. Show an example of Header.

Code:

```
<?php  
echo "<B> MCA 1C CASD PHP CLASS </B>";  
?>
```

Output:

MCA 1C CASD PHP CLASS

2. Show an example of Footer.

Code:

```
<?php  
echo "<p> copyright &copy; 1999-".date("y")."techno india<p>";  
?>
```

Output:

copyright © 1999-24techno india

3. Show the use of Header and Footer.

Code:

```
<?php include '1.php' ;?>  
<html>  
<body>  
<h1>  
welcome to my homepage </h1>  
<p> some text </p>  
<p> some more text </p>  
<?php include '2.php' ;?>  
</body>  
</html>
```

Output:

MCA 1C CASD PHP CLASS

welcome to my homepage

some text

some more text

copyright © 1999-24techno india

4. Include the last file and insert a header

Code:

```
<html>
<body>
<div class="menu">
<?php include '3.php';?>
</div>
<h1>Welcome totutorial classess</h1>
</body>
</html>
```

Output:

MCA 1C CASD PHP CLASS

welcome to my homepage

some text

some more text

copyright © 1999-24techno india

Welcome totutorial classess

5. Show how to use links in php.

Code:

```
<?php
echo '<a href ="/default.asp">home</a>
<a href ="/html/default.asp">html tutorial</a>
<a href ="/css/default.asp">css tutorial</a>
<a href ="/js/default.asp">java script tutorial</a>
<a href ="/default.asp">php tutorial</a>';
?>
```

Output:

[home](#) [html tutorial](#) [css tutorial](#) [java script tutorial](#) [php tutorial](#)

6. Show the use of strtotime() and date() in php.

Code:

```
<?php
$d = strtotime("12:45pm April 17 2024");
echo "Created date is ".date("y-m-d h:i:s a",$d);
?>
```

Output:

Created date is 24-04-17 12:45:00 pm

7. Show the date and time for tomorrow, next Saturday and the date and time after three months.

Code:

```
<?php
$d=strtotime("tomorrow");
echo date("y-m-d h:i:sa",$d)."<br>";
$d=strtotime("next Saturday");
echo date("y-m-d h:i:sa",$d)."<br>";
```

```
$d=strtotime("+3 Months");
echo date("y-m-d h:i:sa",$d)."<br>";
?>
```

Output:

```
24-04-21 12:00:00am
24-04-27 12:00:00am
24-07-20 07:54:27pm
```

8. Generate a list of dates starting from the next Saturday and ending six weeks later.

Code:

```
<?php
$startdate=strtotime("Saturday");
$enddate=strtotime("+6 weeks",$startdate);
while($startdate<$enddate){
    echo date("M d",$startdate)."<br>";
    $startdate=strtotime("+1 week",$startdate);
}
?>
```

Output:

```
Apr 20
Apr 27
May 04
May 11
May 18
May 25
```