Maharaja Surajmal Institute

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DEPARTMENT OF COMPUTER APPLICATIONS WEB BASES PROGRAMMING

PRACTICAL FILE

SUBJECT CODE – BCA 172

SUBMITTED BY: SUBMITTED TO:

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Sem: 2nd Sec: A (2nd shift)

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```
Code:-
<html>
 <head>
   <title>Arithmetical Operators</title>
 </head>
 <body>
   <?php
    a = 42;
    b = 20;
    c = a + b;
    echo "Addtion Operation Result: $c <br/> ";
    c = a - b;
    echo "Substraction Operation Result: $c <br/>';
    c = a * b;
    echo "Multiplication Operation Result: $c <br/>';
     c = a / b;
    echo "Division Operation Result: $c <br/>-";
     c = a \% b;
    echo "Modulus Operation Result: $c <br/>';
    $c = $a++;
    echo "Increment Operation Result: $c <br/>';
```

```
$c = $a--;
echo "Decrement Operation Result: $c <br/>";
?>
</body>
</html>
```

Addition Operation Result: 62 Substraction Operation Result: 22 Multiplication Operation Result: 840 Division Operation Result: 2.1 Modulus Operation Result: 2 Increment Operation Result: 42 Decrement Operation Result: 43

```
Code:-
<?php
a=7;
$b=6;
$c=8;
d=8;
$e=6;
$sum=$a+$b+$c+$d+$e;
$percentage=($sum/500)*100;
echo("Subject 1 is: $a <br>");
echo("Subject 2 is: $b <br>");
echo("Subject 3 is: $c <br>");
echo("Subject 4 is: $d <br>");
echo("Subject 5 is: $e <br>");
echo("Sum of subjects is: $sum <br>");
echo("Percentage of subjects is: $percentage"."%");
```

Subject 1 is: 7 Subject 2 is: 6 Subject 3 is: 8 Subject 4 is: 8 Subject 5 is: 6 Sum of subjects is: 35 Percentage of subjects is: 7%

```
Code:-
<?php
$pi=3.14;
$radius=7;
$areac=$pi*$radius*$radius;
$permc=2*$pi*$radius;
$length=6;
$breadth=8;
$arear=$length*$breadth;
$permr=2*($length+$breadth);
echo("Radius is: $radius <br>");
echo("Area of circle is: $areac <br>");
echo("Perimeter of circle is: $permc <br>'');
echo("Length of Rectangle is: $length <br>");
echo("Breadth of Rectangle is: $breadth <br>'');
echo("Area of rectangle is: $arear <br>");
echo("Perimeter of rectangle is: $permr <br>'');
?>
```

Radius is: 7

Area of circle is: 153.86 Perimeter of circle is: 43.96 Length of Rectangle is: 6 Breadth of Rectangle is: 8 Area of rectangle is: 48 Perimeter of rectangle is: 28

Practical 4

Code:-

```
<?php
$celsius=56;
$fahr=45;
$ctof=($celsius*9/5)+32;
$ftoc=($fahr-32)*5/9;
echo("Celsius is: $celsius <br>'');
echo("Fahrenheit is: $fahr <br>'');
echo("Celsius to Fahrenheit is: $ctof <br>'');
echo("Fahrenheit to Celsius is: $ftoc <br>'');
?>
```

Output:-

Celsius is: 56 Fahrenheit is: 45

Celsius to Fahrenheit is: 132.8

Fahrenheit to Celsius is: 7.222222222222

Practical 5

Code:-

<?php

```
$a=8;
$b=5;
$temp;
printf("Value in a is: %d <br>", $a);
printf("Value in b is: %d <br>", $b);
$temp=$a;
$a=$b;
$b=$temp;
printf("Now value in a is: %d <br>", $a);
printf("Now value in b is: %d <br>", $b);
echo "Same here now value a is: $a <br>";
echo "Same here now value b is: $b <br>";
?>
```

Code:-

Value in a is: 8 Value in b is: 5 Now value in a is: 5 Now value in b is: 8 Same here now value a is: 5 Same here now value b is: 8

Practical 6

<?php \$principal=100; \$rate=0.5; \$time=12; \$napplied=2; \$siamount; \$ciamount; \$ciamount=\$principal*(1+\$rate*\$time); \$ciamount=\$principal*(1+\$rate/\$napplied)**(\$napplied*\$time);</pre>

```
echo "Principal is: $principal <br>";<br/>echo "Rate is: $rate <br>";<br/>echo "Time is: $time <br>";<br/>echo "Number of times interest applied is: $napplied <br>";<br/>echo "Simple Interest is: $siamount <br>";<br/>echo "Compound Interest is: $ciamount";<br/>?>
```

Principal is: 100 Rate is: 0.5 Time is: 12

Number of times interest applied is: 2

Simple Interest is: 700

Compound Interest is: 21175.823681358

Practical 7

Code:-

```
<?php
$name="Ram Kumar";
$address="Lal Bazzar, Delhi";
$ph="9439239229";
$dob="8 April 2000";
print "Name is: $name <br>";
print "Address is: $address <br>";
print "Phone Number is: $ph <br>";
print "DOB is: $dob <br>";
?>
```

Name is: Ram Kumar

Address is: Lal Bazzar, Delhi Phone Number is: 9439239229

DOB is: 8 April 2000

```
Code:-
<html>
<body>
<?php
$g=11;
$t=58;
function testt()
{
       //Local Variable
        x=7;
        echo "Value of x inside function: $x";
}
function test2(){
       global $g;
       echo "<br/>br> gg is a global variable and can be called anywhere: $g<br/>br>";
}
function test3(){
       static $f=4;
        echo "f is static variable $f";
        $f++;
}
function test4(){
        echo "t is a global variable ",$GLOBALS['t']."<br>";
}
echo "<br/>br> x cannot be printed outside function";
test2();
```

```
test3();
echo"<br>";
test3();
echo"<br>";
test3();
echo"<br>";
test4();
?>
</body>
</html>

Output: -
```

Output.-

Value of x inside function: 7 x cannot be printed outside function gg is a global variable and can be called anywhere: 11 f is static variable 4 f is static variable 5 f is static variable 6 t is a global variable 58

```
Code: -

<?php
$x=1.23;
$y=98;
$z="WAR";
$s="WJS32JEJE";
$bb=true;
$arr=array("RJEJE", "RHEHMA");
$arr1=array("KTR",278,73.72);
var_dump($x);
echo "<br>";
printf("Printed using printf and data modifier: %f <br>", $x);
var_dump($y);
echo "<br>";
```

```
printf("Printed using printf and data modifier: %d <br>>", $y);
var_dump($z);
echo "<br>";
printf("Printed using printf and data modifier: %s <br>>", $z);
var_dump($s);
echo "<br>";
printf("Printed using printf and data modifier: %s <br>", $s);
var_dump($bb);
echo "<br>";
printf("Printed using printf and data modifier: %d", $bb);
echo "<br>";
var_dump($arr);
echo "<br > Printed using print_r: ";
print_r($arr);
echo"<br>";
var_dump($arr1);
echo "<br/>br> Printed using print_r and pre tag: ";
echo "";
print_r($arr1);
echo "";
?>
```

```
float(1.23)
Printed using printf and data modifier: 1.230000
Printed using printf and data modifier: 98
string(3) "WAR"
Printed using printf and data modifier: WAR
string(9) "WJS32JEJE"
Printed using printf and data modifier: WJS32JEJE
bool(true)
Printed using printf and data modifier: 1
array(2) { [0]=> string(5) "RJEJE" [1]=> string(6) "RHEHMA" }
Printed using print_r: Array ([0] => RJEJE [1] => RHEHMA)
array(3) { [0]=> string(3) "KTR" [1]=> int(278) [2]=> float(73.72) }
Printed using print_r and pre tag:
Array
    [0] => KTR
    [1] => 278
   [2] => 73.72
```

```
Code: -

<?php
$x=877;
$y=78;
$z=65;
$g=54;
printf("Decimal Number: %d", $x);
printf("<br>Binary Number: %b", $y);
printf("<br>Octal Number: %o", $z);
printf("<br>Hexadecimal Number: %x", $g);
?>
```

Decimal Number: 877 Binary Number: 1001110 Octal Number: 101

Hexadecimal Number: 36

Practical 11

```
code: -

<?php
$x="AHA";
echo"Value in x is: $x but now it will be null<br>";
$x=null;
var_dump($x);
$y=21;
echo"<br/>br>Value in y is: $y but now it will be null<br>";
$y=null;
var_dump($y);
?>

Output: -

Value in x is: AHA but now it will be null
NULL
Value in y is: 21 but now it will be null
NULL
```

Practical 12

```
<?php
define("pi",3.141,true);
$x=8;
echo"Value in pi is: ".pi."<br>";
echo"Value in x is: $x <br>";
```

Code:-

```
$ar=PI*$x*$x;
echo"Area of a circle with radius <b>x</b> and pi as constant: $ar<br/>;?>

Output: —

Value in pi is: 3.141
Value in x is: 8
Area of a circle with radius x and pi as constant: 201.024
```

```
Code:-
<?php
class student
{
       public $name="AMAN";
       public function gg()
              echo" <br/>br>This is the function accessed outside";
       }
}
$ss= new student;
var_dump($ss);
echo $ss->gg();
?>
Output:-
 object(student)#1 (1) { ["name"]=> string(4) "AMAN" }
 This is the function accessed outside
```

```
Code:-
<?php
echo"The line number is: ",__line__."<br>";
echo"The file path is: ",__file__."<br/>';
function tryy()
{
       echo"The function name is: ",__function__."<br>";
}
tryy();
echo"The line number is: ",__line__."<br>";
class student
{
       public function cname()
               echo"The class name is: ",__class__."<br>";
       }
}
$trial=new student();
echo $trial->cname();
echo"The line number is: ",__line__."<br>";
class two
{
       public function nee()
       {
               echo "The method name is: ",__method__."<br>";
       }
}
$tryy2=new two;
echo $tryy2->nee();
?>
```

else

{

The line number is: 2

```
The file path is: /home/y8ph6t/prog.php
The function name is: trvv
The line number is: 9
The class name is: student
The line number is: 20
The method name is: two::nee
                                Practical 15
Code:-
<?php
$text="This is the 121 2443array of $ @ + _ 34 dd jekhew aaKbb PHP php web K. Next this
line lorem insnsn asekwae wae
is a part of the rest of the array with nos 874 398 17219 and special characters # #$&) (";
$exp=preg_match_all("/WAE/i",$text,$arr);
//$exp=preg_match_all("/WAP|web|the|of/i",$text,$arr);
//$exp=preg_match_all("/[2-6a-w]/i",$text,$arr);
//$exp=preg_match_all("/s|o|a|e|/i",$text,$arr);
//$exp=preg_match_all("/[wae]/i",$text,$arr);
//$exp=preg_match_all("/[^php]/i",$text,$arr);
//$exp=preg_match_all("\\W/i",$text,$arr);
//$exp=preg_match_all("/\w/i",$text,$arr);
//$exp=preg_match_all("\\s/i",$text,$arr);
//$exp=preg_match_all("\\S/i",$text,$arr);
//$exp=preg_match_all("/.ar/i",$text,$arr);
//$exp=preg_match_all("/ar./i",$text,$arr);
if($exp)
{
       echo"Match found";
}
```

```
Code: -

<?php
$x='A';
echo"Value of x is: $x";
while($x<'K')
{
        echo "<br>The letter is: $x";
        ++$x;
}
?>
```

```
Value of x is: A
The letter is: B
The letter is: C
The letter is: D
The letter is: E
The letter is: F
The letter is: G
The letter is: H
The letter is: I
The letter is: I
```

```
Code: -

<?php
$x='A';
echo"Value of x is: $x";
do
{
    echo "<br/>br>The number is: $x";
}while($x>'A')
?>

Output: -

Value of x is: A
The number is: A
```

```
Code:-
<?php
$x=0;
echo"Value of x is: $x";
for($x=0;$x<10;++$x)
       echo "<br/>br>The number is: $x";
}
?>
Output:-
 Value of x is: 0
 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
```

Practical 19

Code:-

Aq Bq Cq Dq

Code:-

Practical 20

Output:-

?>

```
and Success
or Success
xor Success
&& Success
|| Success
```

```
Code:-
<?php
a = 80;
b = 76;
c = "89";
echo var_dump($a == $c) . "<br>";
echo var_dump($a != $b) . "<br>";
echo var_dump($a <> $b) . "<br>";
echo var_dump($a === $c) . "<br>";
echo var_dump($a !== $c) . "<br>";
echo var_dump($a < $b) . "<br>";
echo var_dump(a > b). "br >";
echo var_dump($a <= $b) . "<br>";
echo var_dump(a >= b);
?>
Output:-
 bool(false)
 bool(true)
 bool(true)
 bool(false)
 bool(true)
 bool(false)
```

bool(true) bool(false) bool(true)

Code:-

Practical 22

<?php \$x = array("k" => "Love", "l" => "Hate"); \$y = array("a" => "Credit", "b" => "Blame");

```
echo"";
echo var_dump($x + $y);
echo"";
echo var_dump($x == $y) . "<br>";
echo var_dump($x != $y) . "<br>";
echo var_dump($x <> $y) . "<br>";
echo var_dump($x === $y) . "<br>";
echo var_dump($x !== $y) . "<br>";
echo var_dump($x !== $y) . "<br>";
echo var_dump($x !== $y) . "<br>";
```

```
array(4) {
    ["k"]=>
    string(4) "Love"
    ["l"]=>
    string(4) "Hate"
    ["a"]=>
    string(6) "Credit"
    ["b"]=>
    string(5) "Blame"
}
bool(false)
bool(true)
bool(true)
bool(false)
bool(true)
```

Code:-

```
<!DOCTYPE html>
<html>
<body>
<caption><center><b>First 10 Square Numbers</caption>
NumberSqaure
<?php
$count=1; $square=1;
while($count<=10)
{
$square=$count*$count;
echo "<",$count,"<th>",$square,"";
$count++;
}
?>
</body>
</html>
```

First 10 Square Numbers

Number	Sqaure
1	1
2	4
3	9
4	16
5	25
6	36
7	49
8	64
9	81
10	100

Practical 24

Factorial of 4 is 24

```
Code:-
<?php
define('a', 12);
for($i=1; $i<=10; $i++)
 echo $i*a;
 echo '<br>';
}
?>
Output:-
 12
 24
 36
 48
 60
 72
 84
 96
 108
 120
```

```
?>
<hr>
<?php
for($i=0;$i<=5;$i++)
{
       for($j=5-$i;$j>=0;$j--){
       echo "*";
       }
echo "<br>";
}
?>
<hr>
<?php
//Star Pyramid Size
$size = 5;
for($i=1;$i<=$size;$i++){
  for($j=1;$j<=$size-$i;$j++){
    echo "  ";
 }
  for($k=1;$k<=$i;$k++){}
              echo "*  ";
 }
echo "<br />";
}
?>
<hr>>
<?php
for($i=1;$i<5;$i++){
       for($j=1;$j<5;$j++){
              echo "*";
       }
       echo "<br/>";
}
?>
```

```
Code: -

<?php
$n = 50;
$i = 1;
$sum = 0;

//calculating sum from 1 to n
while($i <= $n) {
$sum += $i;
$i++;
}</pre>
```

```
echo "Sum is: $sum";
?>
Output:-
```

Sum is: 1275

Practical 28

```
Code: -

<?php
$num = 23456;
$revnum = 0;
while ($num > 1)
{
    $rem = $num % 10;
$revnum = ($revnum * 10) + $rem;
$num = ($num / 10);
}
echo "Reverse number of 23456 is: $revnum";
?>

Output: -
```

Reverse number of 23456 is: 65432

```
Code:-
<?php
function check_prime($num)
{
 if ($num == 1)
 return 0;
 for ($i = 2; $i <= $num/2; $i++)
   if ($num % $i == 0)
   return 0;
 return 1;
num = 47;
echo"Number: $num"."<br>";
$flag_val = check_prime($num);
if ($flag_val == 1)
 echo "It is a prime number";
else
 echo "It is a non-prime number"
?>
Output:-
  Number: 47
  It is a prime number
```

```
Code:-
<?php
$num=407;
echo"Number: $num <br>";
$total=0;
$x=$num;
while($x!=0)
$rem=$x%10;
$total=$total+$rem*$rem*$rem;
$x=$x/10;
if($num==$total)
echo "Yes it is an Armstrong number";
}
else
echo "No it is not an armstrong number";
}
?>
Output:-
 Number: 407
```

Yes it is an Armstrong number

Code:-