Maharaja Surajmal Institute

Affiliated to GGSIPU & NAAC 'A' grade accredited

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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Practical 1

Code:-

```html
<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;
```

```php
        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>
```

Output:-

Addtion 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

Practical 2

Code:-

```php
<?php
$a=7;
$b=6;
$c=8;
$d=8;
$e=6;
$sum=$a+$b+$c+$d+$e;
```

```php
$percentage=($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"."%");
?>
```

Output:-

```
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%
```

Practical 3

Code:-

```php
<?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>");
```

```php
echo("Breadth of Rectangle is: $breadth <br>");
echo("Area of rectangle is: $arear <br>");
echo("Perimeter of rectangle is: $permr <br>");
?>
```

Output:-

```
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
<?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: 7.2222222222222
```

Practical 5

Code:-

```php
<?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>";
?>
```

Output:-

```
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

Code:-

```php
<?php
$principal=100;
$rate=0.5;
$time=12;
```

```php
$napplied=2;
$siamount;
$ciamount;
$siamount=$principal*(1+$rate*$time);
$ciamount=$principal*(1+$rate/$napplied)**($napplied*$time);
echo "Principal is: $principal <br>";
echo "Rate is: $rate <br>";
echo "Time is: $time <br>";
echo "Number of times interest applied is:  $napplied <br>";
echo "Simple Interest is: $siamount <br>";
echo "Compound Interest is: $ciamount";
?>
```

Output:-

```
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
<?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

Practical 8

Code:-

```php
<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> gg is a global variable and can be called anywhere: $g<br>";
}
function test3(){
        static $f=4;
        echo "f is static variable $f";
        $f++;
}
function test4(){
        echo "t is a global variable ",$GLOBALS['t']."<br>";
}
testt();
echo "<br> x cannot be printed outside function";
```

```php
test2();
test3();
echo"<br>";
test3();
echo"<br>";
test3();
echo"<br>";
test4();
?>
</body>
</html>
```

```
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
```

Practical 9

Code:-

```php
<?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);
```

```php
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> Printed using print_r and pre tag: ";
echo "<pre>";
print_r($arr1);
echo "</pre>";
?>
```

Output:-

```
float(1.23)
Printed using printf and data modifier: 1.230000
int(98)
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
)
```

Practical 10

Code:-

```php
<?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
<?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>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

Code:-

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

$ar=PI*$x*$x;

echo"Area of a circle with radius x and pi as constant: $ar
";

?>

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

Practical 13

Code:-

```php
<?php
class student
{
        public $name="AMAN";

        public function gg()
        {
                echo"<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

Practical 14

Code:-

```php
<?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();
?>
```

```
The line number is: 2
The file path is: /home/y8ph6t/prog.php
The function name is: tryy
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
<?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";
}
else
{
```

echo"Match not found";

}

echo"<pre>";

print_r($arr);

echo"</pre>";

//echo $arr[0][1];

?>

Output:-

```
Match found

Array
(
    [0] => Array
        (
            [0] => wae
            [1] => wae
        )

)
```

Practical 16

Code:-

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

Output:-

```
Value of x is: A
The letter 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: J
```

Practical 17

Code:-

```php
<?php
$x='A';
echo"Value of x is: $x";
do
{
        echo "<br>The number is: $x";

}while($x>'A')
?>
```

Output:-

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

Practical 18

Code:-

```php
<?php
$x=0;
echo"Value of x is: $x";
for($x=0;$x<10;++$x)
{
        echo "<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:-

```php
<?php
$x=array("Aq","Bq","Cq","Dq");
foreach($x as $value)
{
        echo"$value ";
}
?>
```

Practical 20

Code:-

```php
<?php
$x = 50;
$y = 30;
if ($x == 50 and $y == 30)
        echo "and Success <br>";
if ($x == 50 or $y == 20)
        echo "or Success <br>";
if ($x == 50 xor $y == 20)
        echo "xor Success <br>";
if ($x == 50 && $y == 30)
        echo "&& Success <br>";
if ($x == 50 || $y == 20)
        echo "|| Success <br>";
if (!$x)
        echo "! Success <br>";
?>
```

Output:-

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

Practical 21

Code:-

```php
<?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)
```

Practical 22

Code:-

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

```php
echo"<pre>";
echo var_dump($x + $y);
echo"</pre>";
echo var_dump($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>";
?>
```

Output:–

```
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)
```

Practical 23

Code:–

```
<!DOCTYPE html>
<html>
<body>
<caption><center><b>First 10 Square Numbers</caption><p>
<table border=3 cellspacing=3 cellpadding=3>
<tr><th>Number<th>Sqaure
</tr>
<?php
$count=1; $square=1;
while($count<=10)
{
$square=$count*$count;
echo "<tr><th>",$count,"<th>",$square,"</tr>";
$count++;
}
?>
</body>
</html>
```

Output:-

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

Code:-

```php
<?php
$num = 4;
$factorial = 1;
for ($x=$num; $x>=1; $x--)
{
  $factorial = $factorial * $x;
}
echo "Factorial of $num is $factorial";
?>
```

Output:-

Factorial of 4 is 24

Practical 25

Code:-

```php
<?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
```

Practical 26

Code:-

```php
<?php
for($i=0;$i<=5;$i++){
        for($j=0;$j<=$i;$j++){
                echo "*";
        }
        echo "<br/>";
}
```

```php
?>
<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/>";
}
?>
```

```
*
**
***
****
*****
******
```

```
******
*****
****
***
**
*
```

```
    *
   * *
  * * *
 * * * *
* * * * *
```

```
****
****
****
****
```

Practical 27

Code:-

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

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

echo "Sum is: $sum";

?>

Output:-

Sum is: 1275

Practical 28

Code:-

```php
<?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

Practical 29

Code:-

```php
<?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

Practical 30

Code:-

```php
<?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

Practical 31

Code:-

```
<!DOCTYPE html>
<html>
<body>

<?php
 $ip = 0;
   printf("The prime numbers between 1 and 199 are: <br>");
   for ($i = 2; $i < 199; $i++)
   {
    $flag = 1;
    for ($j = 2; $j <= $i / 2 && $flag == 1; $j++)
    {
      if ($i % $j == 0) {
        $flag = 0;
      }
    }
    if ($flag == 1)
    {
      printf("%d ", $i);
      $ip++;
      if ($ip % 10 == 0)
      {
        printf("<br>");
      }
    }
   }

?>

</body>
</html>
```

The prime numbers between 1 and 199 are:
2 3 5 7 11 13 17 19 23 29
31 37 41 43 47 53 59 61 67 71
73 79 83 89 97 101 103 107 109 113
127 131 137 139 149 151 157 163 167 173
179 181 191 193 197

Practical 32

Code:-

```
<!DOCTYPE html>
<html>
<body>

<?php
function check($input){
if(is_numeric($input)){
echo"Input is Numeric";
}
else if(ctype_alpha ($input)){
echo" Input is Alphabetic";}
else echo"Input is Neither Number nor Alphbet";

}
$input = 21;echo"<br>";
echo"Input : $input";echo"<br>";
check($input);
echo"<br>";
$input = 'A';echo"<br>";
echo"Input : $input";echo"<br>";
check($input);
echo"<br>";
```

```php
$input = 'a';echo"<br>";
echo"Input : $input";echo"<br>";
check($input);
echo"<br>";
$input ="#";echo"<br>";
echo"Input : $input";echo"<br>";
check($input);

?>
```

</body>
</html>

Output:-

```
Input : 21
Input is Numeric

Input : A
Input is Alphabetic

Input : a
Input is Alphabetic

Input : #
Input is Neither Number nor Alphbet
```

Practical 33

Code:-

```php
<?php
// Define an indexed array
$colors = array("Red", "Green", "Blue");
print_r($colors);
echo"<hr>";
// Define an associative array
$ages = array("Peter"=>22, "Clark"=>32, "John"=>28);
print_r($ages);
echo"<hr>";
// Define an Multidimensional array
$contacts = array(
    array(
        "name" => "Peter Parker",
        "email" => "peterparker@mail.com",
    ),
    array(
        "name" => "Clark Kent",
        "email" => "clarkkent@mail.com",
    ),
    array(
        "name" => "Harry Potter",
        "email" => "harrypotter@mail.com",
    )
);
print_r($contacts);

?>
```

Array ([0] => Red [1] => Green [2] => Blue)

Array ([Peter] => 22 [Clark] => 32 [John] => 28)

Array ([0] => Array ([name] => Peter Parker [email] => peterparker@mail.com) [1] => Array ([name] => Clark Kent [email] => clarkkent@mail.com) [2] => Array ([name] => Harry Potter [email] => harrypotter@mail.com))

Practical 34

Output:–

```php
<?php
// Multidimensional array
$superheroes = array(
    "spider-man" => array(
        "name" => "Peter Parker",
        "email" => "peterparker@mail.com",
    ),
    "super-man" => array(
        "name" => "Clark Kent",
        "email" => "clarkkent@mail.com",
    ),
    "iron-man" => array(
        "name" => "Harry Potter",
        "email" => "harrypotter@mail.com",
    )
);

// Printing all the keys and values one by one
$keys = array_keys($superheroes);
for($i = 0; $i < count($superheroes); $i++) {
    echo $keys[$i] . "{<br>";
    foreach($superheroes[$keys[$i]] as $key => $value) {
```

```php
        echo $key . " : " . $value . "<br>";
    }
    echo "}<br>";
}
?>
```

Output:-

```
spider-man{
name : Peter Parker
email : peterparker@mail.com
}
super-man{
name : Clark Kent
email : clarkkent@mail.com
}
iron-man{
name : Harry Potter
email : harrypotter@mail.com
}
```

Practical 35

Code:-

```php
<?php
$age=array("Peter"=>"35","Ben"=>"37","Joe"=>"43");
ksort($age);
print_r($age);
echo"<br>";
?>
<?php
$age=array("Peter"=>"35","Ben"=>"37","Joe"=>"43");
krsort($age);
print_r($age);
echo"<br>";
```

```php
?>
<?php
$age=array("Peter"=>"35","Ben"=>"37","Joe"=>"43");
asort($age);
print_r($age);
echo"<br>";
?>
<?php
$age=array("Peter"=>"35","Ben"=>"37","Joe"=>"43");
asort($age);
print_r($age);
echo"<br>";
?>
<?php
$age=array("Peter"=>"35","Ben"=>"37","Joe"=>"43");
$size = count($age);
echo"Number of Element: $size";
echo"<br>";echo"<br>";echo"<br>";
?>
<?php
$cars=array("Volvo","BMW","Toyota","Honda","Mercedes","Opel");
print_r(array_chunk($cars,2));
?>
```

Output:-

```
Array ( [Ben] => 37 [Joe] => 43 [Peter] => 35 )
Array ( [Peter] => 35 [Joe] => 43 [Ben] => 37 )
Array ( [Peter] => 35 [Ben] => 37 [Joe] => 43 )
Array ( [Peter] => 35 [Ben] => 37 [Joe] => 43 )
Number of Element: 3


Array ( [0] => Array ( [0] => Volvo [1] => BMW ) [1] => Array ( [0] =>
Toyota [1] => Honda ) [2] => Array ( [0] => Mercedes [1] => Opel ) )
```

Practical 36

Code:-

```php
<?php

// PHP function to illustrate the use of array_reverse()
function Reverse($array)
{
        return(array_reverse($array));
}

$array = array("ram", "aakash", "saran", "mohan");

echo "Before:\n";
print_r($array);

echo "\nAfter:\n";
print_r(Reverse($array));

?>
```

Output:-

```
Before: Array ( [0] => ram [1] => aakash [2] => saran [3] => mohan )
After: Array ( [0] => mohan [1] => saran [2] => aakash [3] => ram )
```

Practical 37

```php
<?php
$t = date("H");

if ($t < "10") {
  echo "Have a good morning!";
} elseif ($t < "20") {
  echo "Have a good day!";
} else {
  echo "Have a good night!";
}
?>
```

Have a good day!

Practical 38

Code:-

```php
<?php
// PHP program to show
// standard type casting

$a = 1;
var_dump($a);
echo"<br>";
// int to float
$a = (float) $a;
var_dump($a);
echo"<br>";
// float to double
$a = (double) $a;
var_dump($a);
echo"<br>";
// double to real
$a = (real) $a;
var_dump($a);
echo"<br>";
// real to int
$a = (int) $a;
var_dump($a);
echo"<br>";
// int to integer
$a = (integer) $a;
var_dump($a);
echo"<br>";
// integer to bool
$a = (bool) $a;
var_dump($a);
echo"<br>";
```

```php
// bool to boolean
$a = (boolean) $a;
var_dump($a);
echo"<br>";
// boolean to string
$a = (string) $a;
var_dump($a);
echo"<br>";
// string to array
$a = (array) $a;
var_dump($a);
echo"<br>";
// array to object
$a = (object) $a;
var_dump($a);
echo"<br>";
// object to unset/NULL
$a = (unset) $a;
var_dump($a);

?>
```

Output:-

```
int(1)
float(1)
float(1)
float(1)
int(1)
int(1)
bool(true)
bool(true)
string(1) "1"
array(1) { [0]=> string(1) "1" }
object(stdClass)#1 (1) { [0]=> string(1) "1" }
NULL
```

Practical 39

Code:-

```php
 <?php
$today="Open";

switch($today){

   case "Open":
      echo "Shop Open";
      break;

   case "Closed":
      echo "Shop Closed";
      break;
}
echo"<hr>";
?>

<?php
$today="Closed";

switch($today){

   case "Open":
      echo "Shop Open";
      break;

   case "Closed":
      echo "Shop Closed";
      break;
}
?>
```

Shop Open

Shop Closed

Practical 40

Code:-

```php
<?php
echo str_replace("world","Peter","Hello world!");
echo"<br>";echo"<br>";
?>
<?php
echo strstr("Hello world!","world");echo"<br>";echo"<br>";
?>
<?php
echo strncmp("Hello world!","Hello earth!",6);echo"<br>";echo"<br>";
?>
<?php
$num = "2.75";

// Cast to integer
$int = (int)$num;
echo gettype($int); echo"<br>";// Outputs: integer
echo $int; // Outputs: 2
 echo"<br>";echo"<br>";
// Cast to float
$float = (float)$num;echo"<br>";
echo gettype($float);echo"<br>"; // Outputs: double
echo $float; // Outputs: 2.75
echo"<br> <br>";
?>
<?php
```

```php
$a = 32;
echo "a is " . is_numeric($a) . "<br>";


$b = 0;
echo "b is " . is_numeric($b) . "<br>";


$c = 32.5;
echo "c is " . is_numeric($c) . "<br>";


$d = "32";
echo "d is " . is_numeric($d) . "<br>";


$e = true;
echo "e is " . is_numeric($e) . "<br>";


$f = null;
echo "f is " . is_numeric($f) . "<br>";
?>
```

Output:-

```
Hello Peter!

world!

0

integer
2


double
2.75

a is 1
b is 1
c is 1
d is 1
e is
f is
```