

PRACTICE PROGRAM:

1. Write a PHP script to calculate the area and volume of a cylinder using a function.

ANS:

HTML & PHP CODE:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Document</title>

</head>

<body>

    <h1>calculate area and volume of cylinder</h1>

    <form action="<?php echo$_SERVER['PHP_SELF'];?>" method="POST">

        <label for="radius"><b>radius</b></label>

        <input type="number" name="radius">

        <br>

        <label for="height"><b>height</b></label>

        <input type="number" name="height">

        <br>

        <label for="volume"><b>volume is:</b></label>

        <input type="text" name="volume" value="<?php echo$volume ?>" readonly>

        <br>

        <label for="area"><b>area is:</b></label>

        <input type="text" name="area" value="<?php echo$area ?>" readonly>

        <br>

        <input type="submit" name="submit" value="submit">

        <input type="reset" name="reset" id="reset" value="cancel">

    </form>

</body>
```

```

</html>

<?php
if($_SERVER["REQUEST_METHOD"]=="POST")
{
    if(isset($_POST["submit"]))
    {
        $r=$_POST["radius"];
        $h=$_POST["height"];
        define('pi','3.14');

        function area($r,$h)
        {
            $a=2*(pi*$r*$h)+2*(pi*$r*$r);
            return $a;
        }

        function volume($r,$h)
        {
            $v=pi*$r*$r*$h;
            return $v;
        }

        $area=area($r,$h);
        $volume=volume($r,$h);
    }
}
?>

```

2. Write a PHP Script to display the sum and average of array elements(Using predefined functions).

ANS:

PHP CODE:

```
<?php
error_reporting(0);
$a=array(1,2,3,4,5,6,7,8,9,10);
$sum=array_sum($a);
echo("Sum of array element is:". $sum."<br>");
$avg=$sum/count($a);
echo("Average of array element is:". $avg."<br>");
?>
```

3. Write a PHP script to calculate the factorial of a number using a function.

ANS:

HTML & PHP CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>
        calculate factorial using function!
    </h1>
    <form action="<?php echo$_SERVER['PHP_SELF'];?>" method="POST">
        <label for="num"><b>Enter number:</b></label>
        <input type="number" name="num" id="num">
        <br>
        <label for="fact"><b>Factorial is:</b></label>
```

```

        <input type="text" name="fact" id="fact" value="<?php echo$result ?>" readonly>

        <br>

        <input type="submit" name="submit" id="submit">

        <input type="reset" name="reset" id="reset">

    </form>
</body>
</html>

<?php
error_reporting(0);
if(isset($_POST["submit"]))
{
    $num=$_POST["num"];
    function factorial($num)
    {
        $f=1;
        for($i=1;$i<=$num;$i++)
        {
            $f=$f*$i;
        }
        return $f;
    }
    $result=factorial($num);
}
?>

```

SET A:

1. Write a PHP script to calculate xy using a function.

ANS:

HTML & PHP CODE:

```

<!DOCTYPE html>

```

```

<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>
        Calculate  $x^y$  using function!
    </h1>
    <form action="<?php echo$_SERVER['PHP_SELF'] ?>" method="POST">
        <label for="x"><b>Enter coefficient:</b></label>
        <input type="number" name="x" id="x"><br>
        <br>
        <label for="y"><b>Enter power :</b></label>
        <input type="number" name="y" id="y"><br>
        <br>
        <label for="ans"><b> $x^y$  is:</b></label>
        <input type="text" name="ans" id="ans" value="<?php echo$result ?>" readonly>
        <br>
        <input type="submit" name="submit" id="submit" value="submit">
    </form>
</body>
</html>
<?php
if(isset($_POST["submit"]))
{
    $x=$_POST["x"];
    $y=$_POST["y"];
    function power($x,$y)
    {

```

```

        $ans=1;
    for ($i=1; $i <= $y; $i++) {
        $ans=$ans*$x;
    }
    return $ans;
}

$result=power($x,$y);
}

?>

```

2. Write a PHP script to define a function EvenOdd, which will display even and odd numbers between 1 to 50.

ANS:

PHP CODE:

```

<?php
function evenOdd()
{
    $e=array();
    $o=array();
    for ($i=1; $i < 50; $i++) {
        if($i%2==0)
        {
            $e[$i]=$i;
        }else{
            $o[$i]=$i;
        }
    }
    echo"Total even numbers are:". "<br>";
    foreach($e as $j)
    {

```

```

        echo$j.", ";
    }
    echo"<br>";
    echo"Total odd numbers are: "."<br>";
    foreach($o as $j)
    {
        echo$j.", ";
    }
}
evenOdd();
?>

```

3. Write a PHP script to define a function Maximum, which will accept 3 numbers as parameters and returns a maximum of 3 numbers.

ANS:

HTML & PHP CODE:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>Maximum of Three numbers!</h1>
    <form action="<?php echo$_SERVER['PHP_SELF'];?>" method="POST">
        <label for="num1"><b>Enter first number:</b></label>
        <input type="number" name="num1" id="num1">
        <br>
        <label for="num2"><b>Enter second number:</b></label>

```

```

<input type="number" name="num2" id="num2">
<br>
<label for="num3"><b>Enter third number:</b></label>
<input type="number" name="num3" id="num3">
<br>
<input type="submit" name="submit" id="submit" value="submit">
<input type="reset" name="reset" id="reset" value="reset">
</form>
</body>
</html>
<?php
error_reporting(0);
if(isset($_POST["submit"]))
{
    $a=$_POST["num1"];
    $b=$_POST["num2"];
    $c=$_POST["num3"];
    function maximum($p,$q,$r)
    {
        if($p>$q&&$p>$r)
        {
            return $p;
        }else if($q>$p&&$q>$r){
            return $q;
        }else{
            return $r;
        }
    }
    $ans=maximum($a,$b,$c);
    echo"<script>alert('Maximum number is $ans');</script>";
}

```


?>

4. Write a PHP script to swap two numbers using a function (Use Call by value and Call by reference).

ANS:

HTML & PHP CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>Swap two numbers using function!</h1>
    <form action="<?php echo$_SERVER['PHP_SELF']?>" method="POST">
        <label for="num1"><b>Enter first number:</b></label>
        <input type="number" name="num1" id="num1"><br>
        <br>
        <label for="num2"><b>Enter second number:</b></label>
        <input type="number" name="num2" id="num2"><br>
        <br>
        <input type="submit" name="submit" id="submit" value="submit">
        <input type="reset" name="reset" id="reset" value="cancel">
    </form>
</body>
</html>
<?php
error_reporting(0);
```

```

if (isset($_POST["submit"])) {

    $a=$_POST["num1"];
    $b=$_POST["num2"];

    function swapByValue($a,$b)
    {
        echo" before The swap value is: ". "a=".$a." and ". "b=".$b."<br>";

        $a=$a+$b;
        $b=$a-$b;
        $a=$a-$b;

        echo"The swap value is(using call by value): ". " a=".$a." and ". " b=".$b."<br>";

    }

    function swapByReference(&$a,&$b)
    {
        echo" before The swap value is: ". " a=".$a." and ". "b=".$b."<br>";

        $a=$a+$b;
        $b=$a-$b;
        $a=$a-$b;

        echo"The swap value is(using call by reference): ". " a=".$a." and ". " b=".$b."<br>";

    }

    swapByValue($a,$b);
    swapByReference($a,$b);

}

?>

```

SET B:

1. Write a PHP Script to create a class Fruit that contains data members as Name, Color and Price. Write a member function to accept and display details of Fruit.

ANS:

PHP CODE:

```
<?php
class fruit{
    public $name;
    public $color;
    public $price;

    function display()
    {
        echo $this->name."<br>";
        echo $this->color."<br>";
        echo $this->price."<br>";
    }
}

$f1=new fruit();
$f1->name="apple";
$f1->color="red";
$f1->price=100;
$f1->display();

$f2=new fruit();
$f2->name="banana";
$f2->color="yellow";
$f2->price=30;
$f2->display();
```

?>

2. Write a PHP Script to create a class Student that contains data members as Roll_Number, Stud_Name, and Percentage. Write member functions to accept Student information.

ANS:

PHP CODE:

```
<?php
class student{
    public $roll_number;
    public $student_name;
    public $percentage;
    function studentInformation()
    {
        echo $this->roll_number."<br>";
        echo $this->student_name."<br>";
        echo $this->percentage."<br>";
    }
}
```

```
$s1=new student();
$s1->student_name="rakesh";
$s1->roll_number=235252;
$s1->percentage=80;
$s1->studentInformation();
```

?>

3. Write a PHP Script to create a class Book (Book_id, Book_name, Publication, Author, Book_price). Write a member function to accept and display Book details.

ANS:

PHP CODE:

```
<?php

class book{

    public $book_id;

    public $book_name;

    public $publication;

    public $author;

    public $book_price;

    function book_details()

    {

        echo "The id of book :"."<br>".$this->book_id."<br>";

        echo "The name of book :"."<br>".$this->book_name."<br>";

        echo "The publication of book :"."<br>".$this->publication."<br>";

        echo "The author of book :"."<br>".$this->author."<br>";

        echo "The price of book :"."<br>".$this->book_price."<br>";

    }

}

$b1=new book();

$b1->book_id=101;

$b1->book_name="mrutunjay";

$b1->book_price=300;

$b1->publication="nirali";

$b1->author="vijay sawant";

$b1->book_details();

?>
```

SET C:

1. Write a PHP script to define a function “DisplayDay”, which will display the day of the

current date.

ANS:

PHP CODE:

```
<?php
function displayDay()
{
    echo date("D")."day";
}
displayDay();
?>
```

2. Write a PHP script to perform arithmetic operations on two numbers. Write a PHP function to display the result. (Use the concept of function and default parameters).

ANS:

PHP CODE:

```
<?php
function arithmetic($a=10,$b=20)
{
    $result=$a+$b;
    echo "addition is : ".$result."<br>";

    $result=$a-$b;
    echo "subtraction is : ".$result."<br>";

    $result=$a*$b;
    echo "multiplication is : ".$result."<br>";

    $result=$a/$b;
    echo "division is : ".$result."<br>";
```

```
$result=$a%$b;  
echo "mod is : ".$result."<br>;  
}  
arithmetic();  
?>
```
