

1.1 Write a program in PHP to display "Learning PHP" in bold format.

```
<?php  
    echo "<b>Learning PHP</b>";  
?>
```

1. 2. Write a program in PHP to demonstrate the use of comments, echo and print.

```
<?php
```

```
/*echo and print are more or less the same. They are both  
used to output data to the screen.
```

The differences are small: echo has no return value while print has a return value of 1 so it can be used in expressions.

echo can take multiple parameters (although such usage is rare) while print can take one argument.

```
echo is marginally faster than print.*/
```

```
$season = "summertime";
```

```
print "<p> I love summertime.</p>";
```

```
print "<p> I love $season.</p>";
```

```
print "<p> I love" . $season. "more</p>";
```

```
?>
```

```
<?php
```

```
$a = "The Ramayana";
```

```
$b = "the mahabharat";
```

```
echo "$a and $b are two of India's greatest epics of india";
```

```
?>
```

1.3 Create a program in PHP to demonstrate the use of If ... Else and switch statements.

Syntax of switch statements:

```
switch (n) {  
    case label1:  
        code to be executed if n=label1;  
        break;  
    case label2:  
        code to be executed if n=label2;  
        break;  
    case label3:  
        code to be executed if n=label3;  
        break;  
    ...  
    default:  
        code to be executed if n is different from  
all labels;  
}
```

syntax of if...else:

```
if (condition) {  
    code to be executed if condition is true;  
} else {  
    code to be executed if condition is false;  
}
```

Program of switch case:

```
<?php
$favcolor = "blue";

switch ($favcolor) {
    case "red":
        echo "Your favorite color is red!";
        break;
    case "blue":
        echo "Your favorite color is blue!";
        break;
    case "green":
        echo "Your favorite color is green!";
        break;
    default:
        echo "Your favorite color is neither red,
blue, nor green!";
}
?>
```

If -else program:

```
<?php
$num=12;
if($num%2==0){
echo "$num is even number";
}else{
echo "$num is odd number";
}
?>
```

1.4. Create an array named \$sub, assign five elements to it and display the elements assigned using for loop and for each statement.

```
<?php
```

```
$sub = array("red", "1", "5.4", "yellow15");
```

```
foreach ($sub as $value) {
```

```
    echo "$value <br>";
```

```
}
```

```
?>
```

```
<?php
```

```
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
```

```
foreach($age as $x => $val) {
```

```
    echo "$x = $val<br>";
```

```
}
```

```
?>
```

```
<?php
```

```
$CodeWallTutorialArray = ["Eggs", "Bacon", "HashBrowns",  
"Beans", "Bread", "RedSauce"];
```

```
    for ($i = 0; $i < count($CodeWallTutorialArray); $i++) {
```

```
        echo $CodeWallTutorialArray[$i] . "<br />";
```

```
    }
```

```
?>
```


1.5. Create an array named \$student that stores 5 elements bounded to different keys and access the same using the key element.

```
<?php
```

```
$students = array("John", "grade 10", "USA","15","central  
park");
```

```
echo "My name is " . $students[0] . "<br>I am studying in " .  
$students[1] .
```

```
"<br>I am from" . $students[2] . "<br>My age  
is".$students[3]."<br>.My favourite place to visit is  
".$students[4];
```

```
?>
```

1.6 Write a program in PHP to demonstrate the use of multidimensional arrays.

o/p :

Name	Stock	Sold
Volvo	22	18
BMW	15	13
Saab	5	2
Land Rover	17	15

```
<?php
```

```
//array declaration
```

```
$cars = array (  
    array("Volvo",22,18),  
    array("BMW",15,13),  
    array("Saab",5,2),  
    array("Land Rover",17,15)  
);
```

```
//access array by address
```

```
echo $cars[0][0].": In stock: ".$cars[0][1].", sold:
".$cars[0][2]."<br>";

echo $cars[1][0].": In stock: ".$cars[1][1].", sold:
".$cars[1][2]."<br>";

echo $cars[2][0].": In stock: ".$cars[2][1].", sold:
".$cars[2][2]."<br>";

echo $cars[3][0].": In stock: ".$cars[3][1].", sold:
".$cars[3][2]."<br>";

?>
```

Method 2:

```
<?php

for ($row = 0; $row < 4; $row++) {

    echo "<p><b>Row number $row</b></p>";

    echo "<ul>";

    for ($col = 0; $col < 3; $col++) {

        echo "<li>".$cars[$row][$col]."</li>";

    }

    echo "</ul>";

}
```

}

?>

1.7 Create two functions in PHP, parameterized and non parameterized for implementing string concatenation operation.

- A function is a block of statements that can be used repeatedly in a program.
- A function will not execute automatically when a page loads.
- A function will be executed by a call to the function.

Syntax

```
function functionname(){  
//code to be executed  
}
```

Program (non-parameter):

Non –parameterized:

```
<?php  
//function define  
function sayHello(){  
echo "Hello PHP Function";  
}
```

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```
sayHello();//calling function
```

```
?>
```

Parameterized:

```
<?php
```

```
function details($name,$age){
```

```
echo "Hello $name, you are $age years old<br/>";
```

```
}
```

```
details("Sonoo",27);
```

```
details("Vimal",29);
```

```
details("John",23);
```

```
?>
```

1.8 Write a PHP program to display information of PHP in the browser

```
<?php
```

```
// Show all information, defaults to INFO_ALL  
phpinfo();
```

```
// Show just the module information.
```

```
phpinfo(INFO_MODULES);
```

```
?>
```

1.9 Write a program in PHP to sort the array of given 5 numbers in ascending and descending order.

```
<?php  
  
$numbers = array(40, 61, 2, 22, 13);  
  
sort($numbers);  
  
  
$arlength = count($numbers);  
  
for($x = 0; $x < $arlength; $x++) {  
    echo $numbers[$x];  
    echo "<br>";  
}  
  
?>
```

```
<?php  
  
$numbers = array(40, 61, 2, 22, 13);  
  
rsort($numbers);
```

```
$arlength = count($numbers);
```

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```
for($x = 0; $x < $arrlength; $x++) {  
    echo $numbers[$x];  
    echo "<br>";  
}  
?>
```

1.10 Write a program to count the total number of times a specific value appears in an array.

```
<?php
```

```
$a = array(12,43,66,21,56,43,43,78,78,100,43,43,43,21);
```

```
$vals = array_count_values($a);
```

```
echo 'No. of NON Duplicate Items:
```

```
'.count($vals).'<br><br>';
```

```
print_r($vals);
```

```
?>
```