**Hands on**

**Workshop Week 6**

**Write a Program:**

1. To count 5 to 15 using PHP loop.
2. <html>
3. <body>
4. <?php
5. $count = 5;
6. while($count < 15)
7. {
8. echo $count;
9. echo "<br>";
10. $count++;
12. }
13. ?>
14. </body>
15. </html>

**Output**

2.To print “Hello World” using PHP variable.

1. <html>
2. <body>
3. <?php
4. $niraj = "Hello world";
5. echo $niraj // print
6. ?>
7. </body>
8. </html>

**Output**

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3. To check student grade based on marks.

<html>

<body>

<?php

$marks = 100;

if ($marks>=60)

{

    $grade = "First Division";

}

else if($marks>=45)

{

    $grade = "Second Division";

}

else if($marks>=33)

{

    $grade = "Third Division";

}

else

{

    $grade = "Fail";

}

echo "Student grade: $grade";

?>

</body>

</html>

**Output**

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4. To find factorial of a number using loop in PHP

1. <html>
2. <body>
3. <?php
4. $num = 3;
5. $factorial = 1;
6. for ($x = $num; $x >=1; $x--){
7. $factorial = $factorial \* $x;
8. }
9. echo"The factorial of $num is $factorial ";
10. ?>
11. </body>
12. </html>

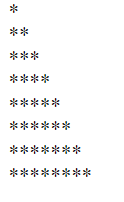
**Output**

****

5. To create a given pattern with \* using for loop

1. <html>
2. <body>
3. <?php
5. for($row=1;$row<=8;$row++)
6. {
7. for ($star=1;$star<=$row;$star++)
8. {
9. echo "\*";
10. }
11. echo "<br>";
12. }
14. ?>
15. </body>
16. </html>

**Output**

****

6. $list = array( "Italy"=>"Rome", "Luxembourg"=>"Luxembourg", "Belgium"=> "Brussels", "Denmark"=>"Copenhagen", "Finland"=>"Helsinki", "France" => "Paris", "Slovakia"=>"Bratislava", "Slovenia"=>"Ljubljana", "Germany" => "Berlin", "Greece" => "Athens", "Ireland"=>"Dublin", "Netherlands"=>"Amsterdam", "Portugal"=>"Lisbon", "Spain"=>"Madrid", "Sweden"=>"Stockholm", "United Kingdom"=>"London", "Cyprus"=>"Nicosia", "Lithuania"=>"Vilnius", "Czech Republic"=>"Prague", "Estonia"=>"Tallin", "Hungary"=>"Budapest", "Latvia"=>"Riga", "Malta"=>"Valetta", "Austria" => "Vienna", "Poland"=>"Warsaw") ;

Create a PHP script which displays the capital and country name from the above array $list. Sort the list by the name of the capital.

<html>

<body>

<?php

$list = array( "Italy"=>"Rome", "Luxembourg"=>"Luxembourg", "Belgium"=> "Brussels", "Denmark"=>"Copenhagen",

"Finland"=>"Helsinki", "France" => "Paris", "Slovakia"=>"Bratislava", "Slovenia"=>"Ljubljana", "Germany" => "Berlin",

"Greece" => "Athens", "Ireland"=>"Dublin", "Netherlands"=>"Amsterdam", "Portugal"=>"Lisbon", "Spain"=>"Madrid",

"Sweden"=>"Stockholm", "United Kingdom"=>"London", "Cyprus"=>"Nicosia", "Lithuania"=>"Vilnius",

"Czech Republic"=>"Prague", "Estonia"=>"Tallin", "Hungary"=>"Budapest", "Latvia"=>"Riga",

 "Malta"=>"Valetta", "Austria" => "Vienna", "Poland"=>"Warsaw") ;

 asort($list);

 foreach($list as $key => $value){

    echo "$key = $value <br>";

 }

?>

</body>

</html>

**Output**

****

7. Write a PHP function that checks whether a passed string is a palindrome or not?

A palindrome is word, phrase, or sequence that reads the same backward as forward, e.g., madam or dad or noon

<html>

<body>

<?php

function Palindrome($MyString) {

  $revString = strrev($MyString);

  if ($revString == $MyString){

    echo $MyString." is a Palindrome string.\n";

  } else {

    echo $MyString." is not a Palindrome string.\n";

  }

}

Palindrome("madam");

echo"<br/>";

Palindrome("dad");

echo"<br/>";

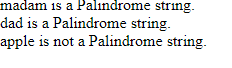
Palindrome("apple");

?>

</body>

</html>

**Output**



8. To swap two variables

Eg: $a = 1; $b =2; Result: $a = 2; $b=1;

<html>

<body>

<?php

$a = 1;

$num = $a;

$b = 2;

echo " Before value $a <br>";

echo " Before value $b <br>";

$a = $b;

$b = $num;

 echo " After value $a <br>";

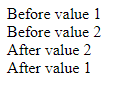
 echo " After value $b <br>";

?>

</body>

</html>

**Output**

****

9. To print the multiple of a given number

Example:

define(‘a’,5);

5 10 15 20 25 30 35 40 45 50 use <br> to print in each line

<html>

<body>

<?php

$num = 5;

function niraj($abc){

    for ($i = 1; $i < 11 ; $i ++){

        echo $abc."\*".$i." = ".$abc\*$i;

        echo"<br>";

    }

    }

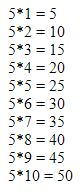
niraj($num);

?>

</body>

</html>

**Output**

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10. To find whether given number is Armstrong or not.

Example:

$number = 153

If ($number == 1\*1\*1+5\*5\*5+3\*3\*3)

Return Armstrong number

Other number: 1, 0, 371, 407 etc

<html>

<body>

<?php

function isArmstrong($number) {

  $sum = 0;

  $num = $number;

  $digits = strlen($number);

  while ($num > 0) {

    $rem = $num % 10;

    $sum += pow($rem, $digits);

    $num = (int)($num / 10);

  }

  if ($sum == $number) {

    return true;

  } else {

    return false;

  }

}

$number = 153;

if (isArmstrong($number)) {

  echo "$number is an Armstrong number";

} else {

  echo "$number is not an Armstrong number";

}

?>

</body>

</html>

**Output**

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