

## Hands on

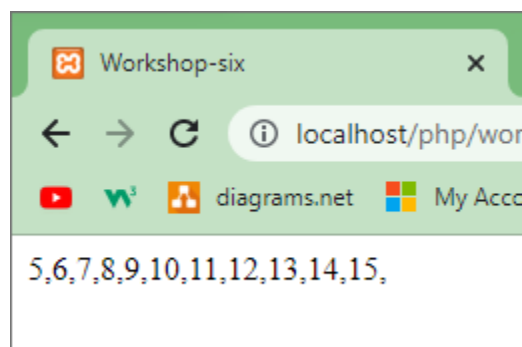
### Workshop Week 6

#### Write a Program:

1. To count 5 to 15 using PHP loop.



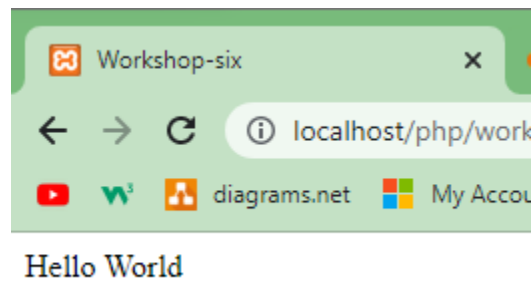
```
1 <?php
2     for($i=5;$i<=15;$i++){
3         echo $i. ",";
4     }
5     ?>
```



2. To print "Hello World" using PHP variable.

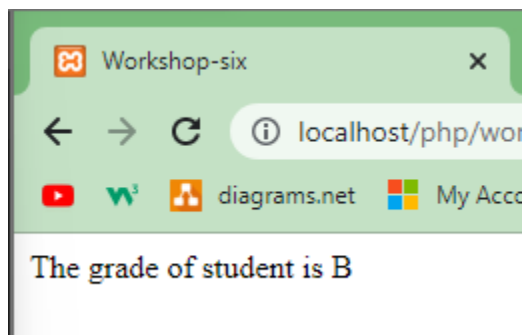


```
1  <?php
2      $a="Hello World";
3      echo $a;
4  ?>
```



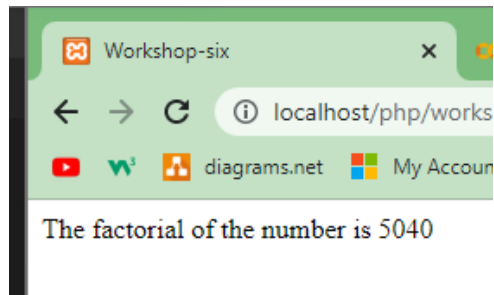
3. To check student grade based on marks.

```
1  <?php
2
3  $grade=78;
4
5  if($grade<20 and $grade>0){
6      echo"The grade of student is E" ;
7  }
8
9  if($grade<40 and $grade>20){
10     echo"The grade of student is D" ;
11 }
12
13 if($grade<60 and $grade>40){
14     echo"The grade of student is C" ;
15 }
16
17 if($grade<80 and $grade>60){
18     echo"The grade of student is B" ;
19 }
20
21 if($grade<100 and $grade>80){
22     echo"The grade of student is A" ;
23 }
24
25
26 ?>
```



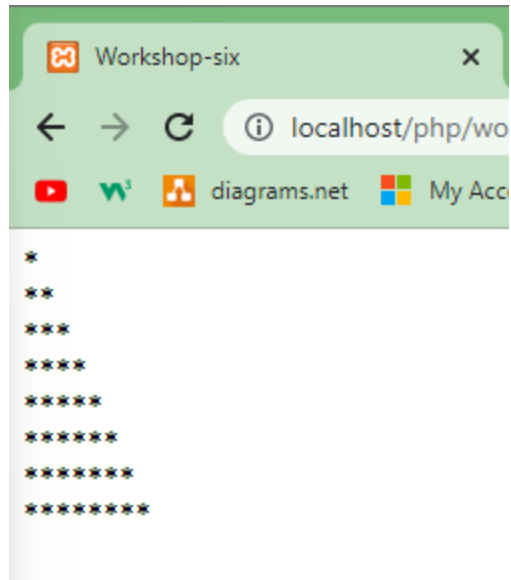
4. To find factorial of a number using loop in PHP

```
1 <?php
2 $number = 7;
3 $fact= 1;
4 for($i=1;$i<=$number;$i++){
5     $fact*=$i;
6 }
7 echo"The factorial of the number is " . $fact;
8 ?>
```



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

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



```
1  <?php
2
3      for($i=0;$i<=7;$i++){
4          for($j=0;$j<=$i;$j++){
5              echo"*";
6          }
7          echo"<br>";
8      }
9  ?>
```

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") ;

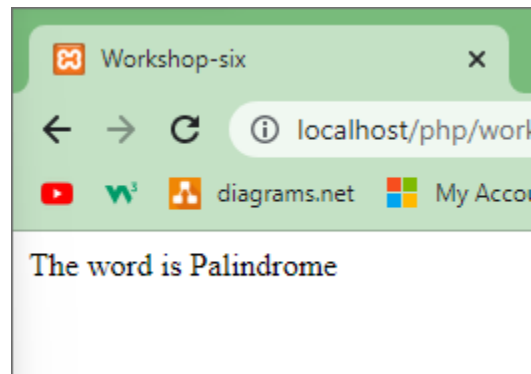
Create a PHP script which displays the capital and country name from the above array \$list. Sort the list by the name of the capital.

```
1  <?php
2  $list = array( "Italy"=>"Rome", "Luxembourg"=>"Luxembourg", "Belgium"=> "Brussels",
3  "Denmark"=>"Copenhagen", "Finland"=>"Helsinki", "France" => "Paris",
4  "Slovakia"=>"Bratislava", "Slovenia"=>"Ljubljana", "Germany" => "Berlin", "Greece" =>
5  "Athens", "Ireland"=>"Dublin", "Netherlands"=>"Amsterdam", "Portugal"=>"Lisbon",
6  "Spain"=>"Madrid", "Sweden"=>"Stockholm", "United Kingdom"=>"London",
7  "Cyprus"=>"Nicosia", "Lithuania"=>"Vilnius", "Czech Republic"=>"Prague",
8  "Estonia"=>"Tallin", "Hungary"=>"Budapest", "Latvia"=>"Riga", "Malta"=>"Valetta",
9  "Austria" => "Vienna", "Poland"=>"Warsaw") ;
10
11  asort($list);
12
13  foreach($list as $key => $value){
14      echo$key ." => " . $value."<br>";
15  }
16  ?>
```

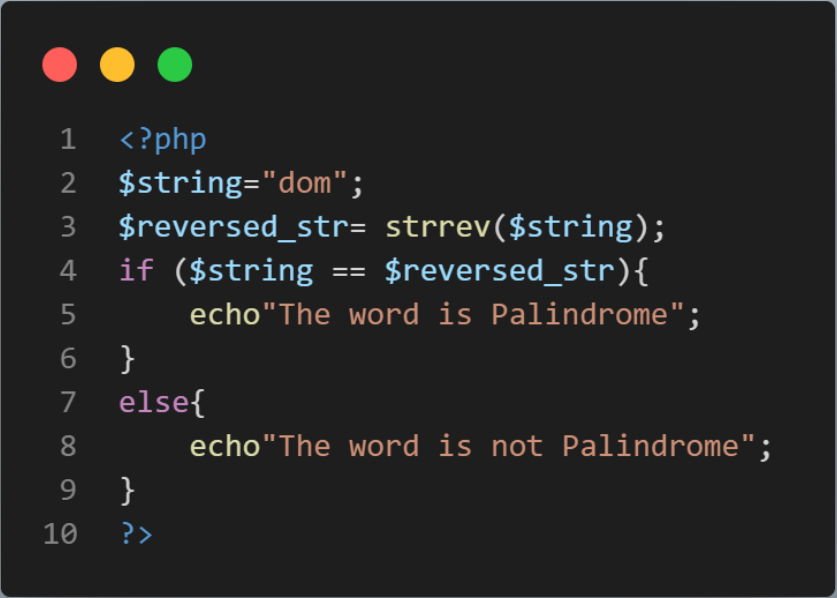


7. Write a PHP function that checks whether a passed string is a palindrome or not?  
A palindrome is word, phrase, or sequence that reads the same backward as forward,  
e.g., madam or dad or noon

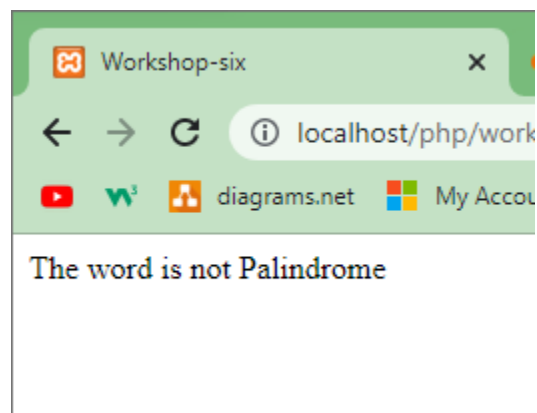
```
1  <?php
2  $string="madam";
3  $reversed_str= strrev($string);
4  if ($string == $reversed_str){
5      echo"The word is Palindrome";
6  }
7  else{
8      echo"The word is not Palindrome";
9  }
10 ?>
```







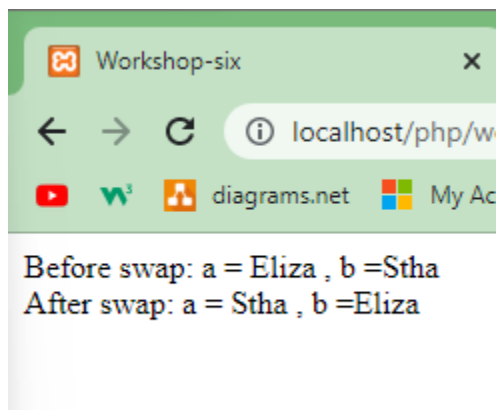
```
1  <?php
2  $string="dom";
3  $reversed_str= strrev($string);
4  if ($string == $reversed_str){
5      echo"The word is Palindrome";
6  }
7  else{
8      echo"The word is not Palindrome";
9  }
10 ?>
```



8. To swap two variables

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

```
1  <?php
2  $a="Eliza";
3  $b="Stha";
4  echo"Before swap: a = " . $a . " , b =" . $b . "<br>";
5
6  $tem=$a;
7  $a=$b;
8  $b=$tem;
9  echo"After swap: a = " . $a . " , b =" . $b . "<br>";
10
11 ?>
```



9. To print the multiple of a given number

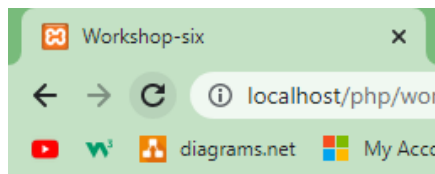
Example:

define('a',5);

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



```
1 <?php
2 $number=13;
3 echo"Multiplies of " . $number . "<br>";
4 for($i=1; $i<=10;$i++){
5     $product=$number*$i;
6     echo $product . "<br>";
7 }
8 ?>
9
```



Multiplies of 13

13  
26  
39  
52  
65  
78  
91  
104  
117  
130

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

```
1
2 <?php
3 function Armstrong($number){
4     $temp_num=$number;
5     $number1=$number;
6     $count=0;
7     while($number>0){
8         $number=(int)($number/10);
9         $count++;
10    }
11    $total=0;
12    while($number1!=0){
13        $remainder=$number1%10;
14        $total+=pow($remainder,$count);
15        $number1=(int) ($number1/10);
16    }
17
18
19    }
20
21    if($temp_num==$total){
22        echo $temp_num ." is Armstrong. ";
23    }
24    else{
25        echo $temp_num . " is not Armstrong.";
26    }
27 }
28 Armstrong(371);
29 Armstrong(100);
30 ?>
```

