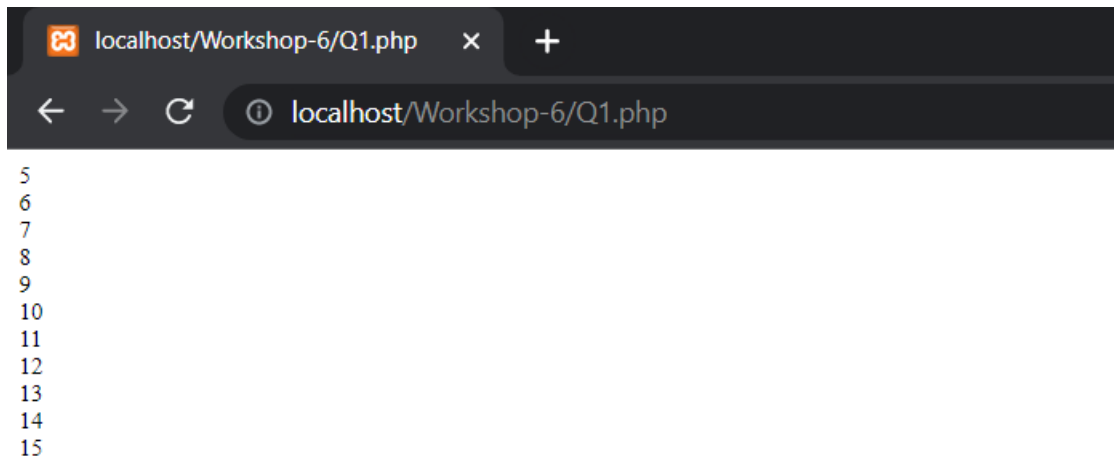


## Hands on

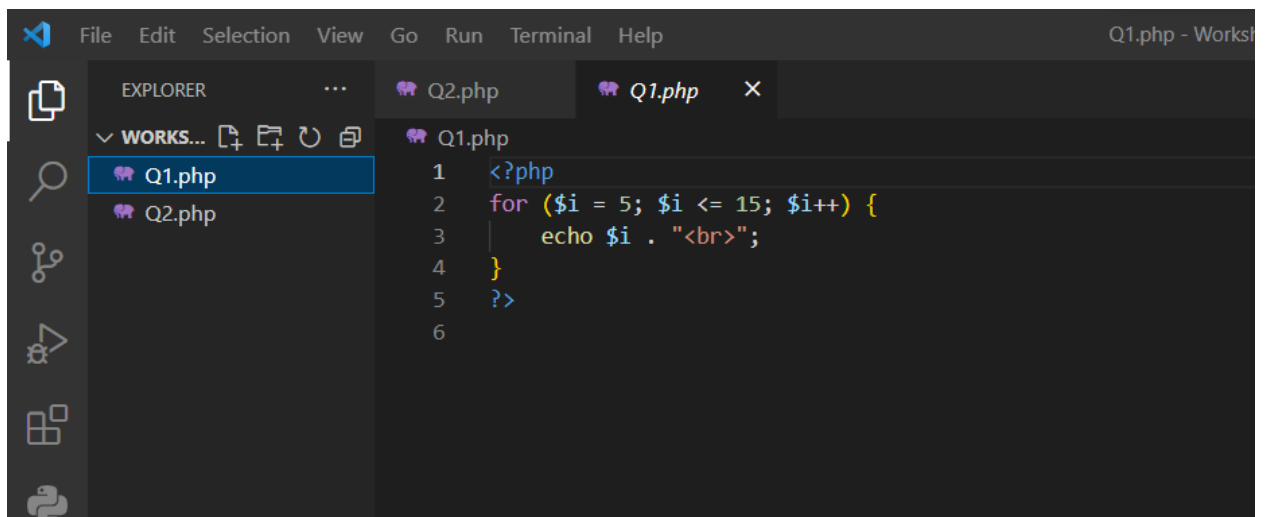
### Workshop Week 6

#### Write a Program:

1. To count 5 to 15 using PHP loop.

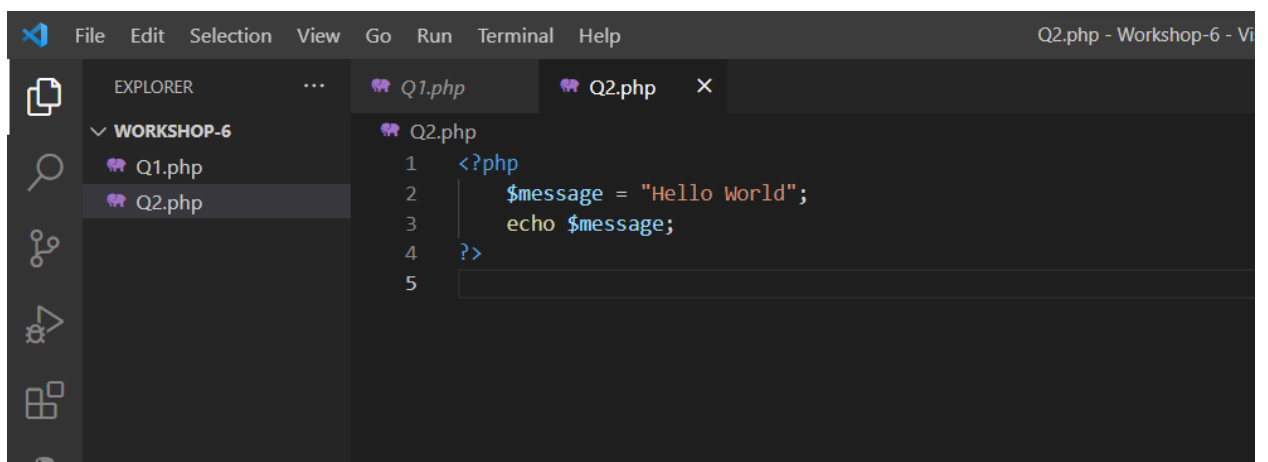
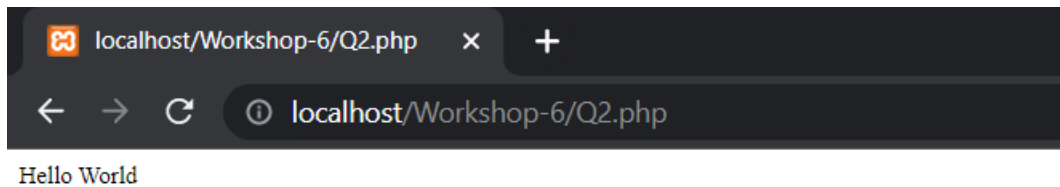


```
5
6
7
8
9
10
11
12
13
14
15
```

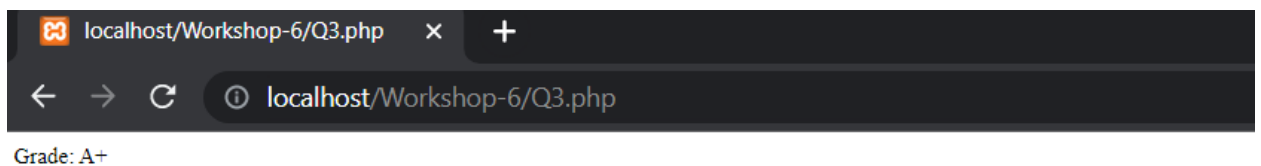


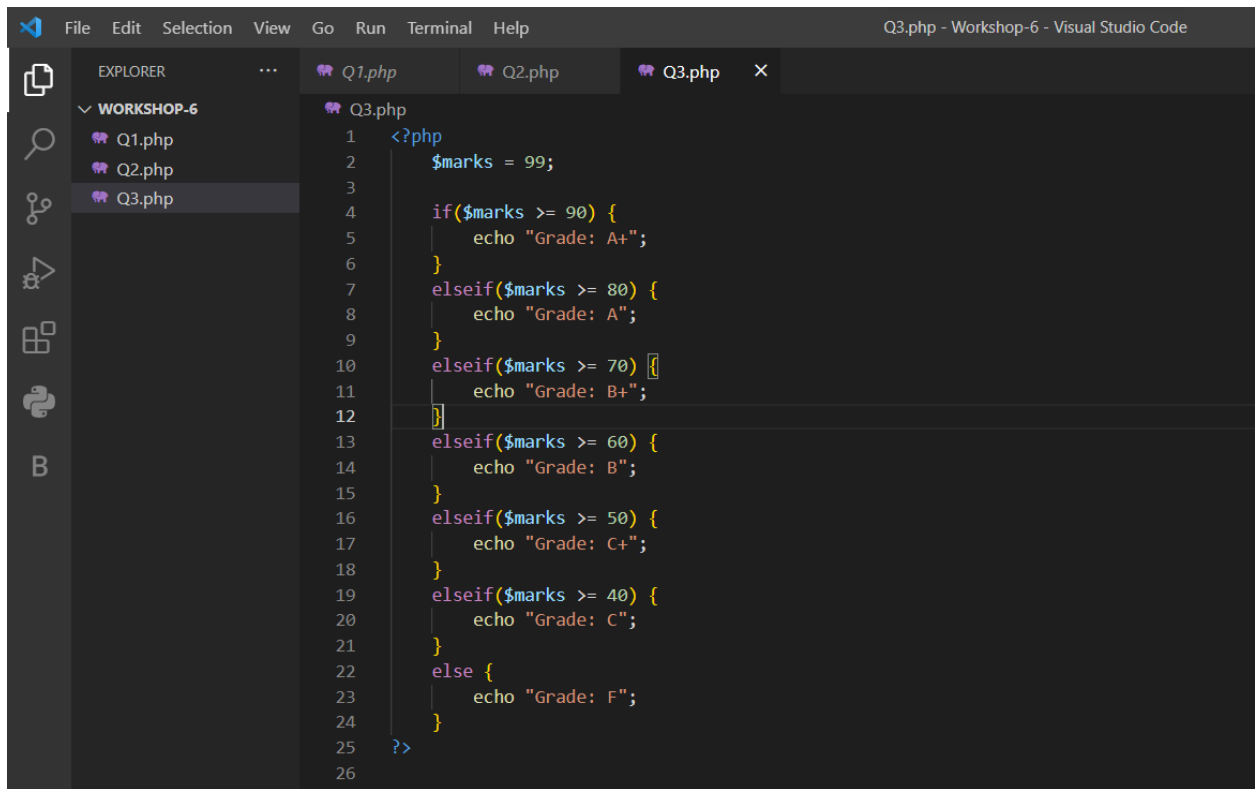
```
File Edit Selection View Go Run Terminal Help
EXPLORER
WORKS...
Q1.php
Q2.php
Q1.php
1 <?php
2 for ($i = 5; $i <= 15; $i++) {
3     echo $i . "<br>";
4 }
5 ?>
6
```

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



3. To check student grade based on marks.

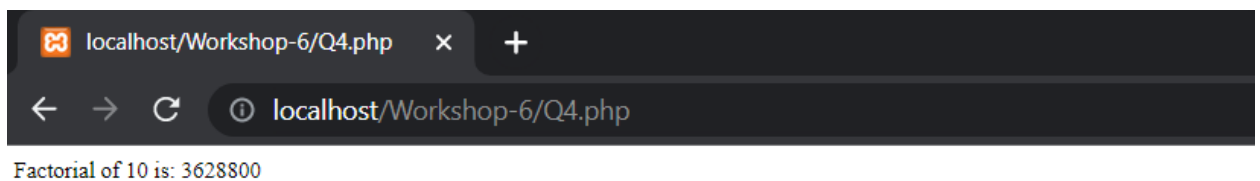




The screenshot shows the Visual Studio Code interface with a file explorer on the left containing 'WORKSHOP-6' and files 'Q1.php', 'Q2.php', and 'Q3.php'. The main editor displays 'Q3.php' with the following PHP code:

```
1 <?php
2 $marks = 99;
3
4 if($marks >= 90) {
5     echo "Grade: A+";
6 }
7 elseif($marks >= 80) {
8     echo "Grade: A";
9 }
10 elseif($marks >= 70) {
11     echo "Grade: B+";
12 }
13 elseif($marks >= 60) {
14     echo "Grade: B";
15 }
16 elseif($marks >= 50) {
17     echo "Grade: C+";
18 }
19 elseif($marks >= 40) {
20     echo "Grade: C";
21 }
22 else {
23     echo "Grade: F";
24 }
25 ?>
26
```

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



The screenshot shows a web browser window with the address bar displaying 'localhost/Workshop-6/Q4.php'. The page content shows the output of a PHP script:

Factorial of 10 is: 3628800

```
Q4.php - Workshop-6 - Visual Studio Code

EXPLORER
WORKSHOP-6
  Q1.php
  Q2.php
  Q3.php
  Q4.php

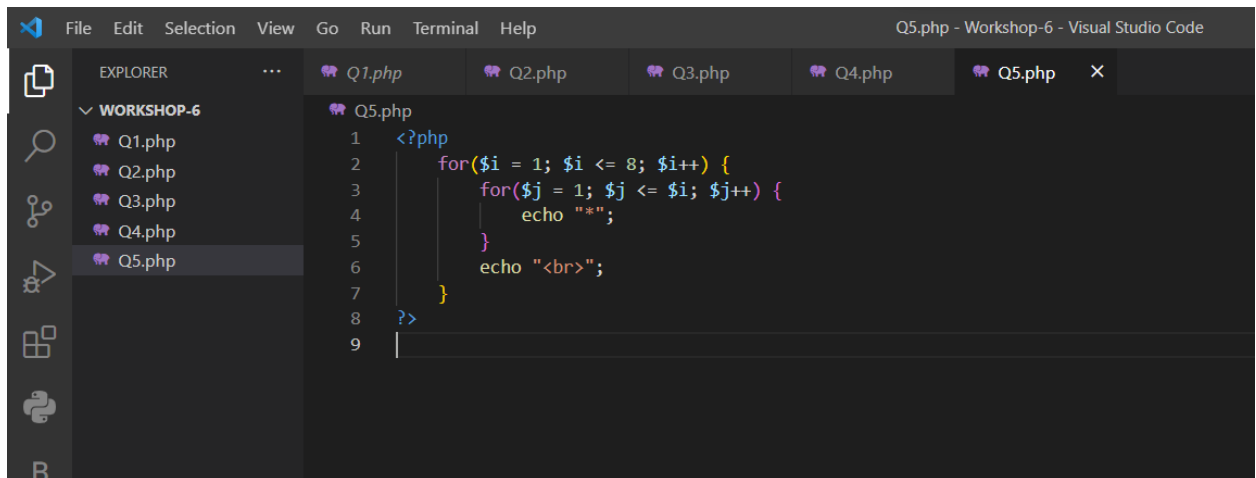
Q4.php
1 <?php
2 $number = 10;
3 $factorial = 1;
4
5 for($i = 1; $i <= $number; $i++) {
6     $factorial *= $i;
7 }
8
9 echo "Factorial of $number is: $factorial";
10 ?>
11
```

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

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

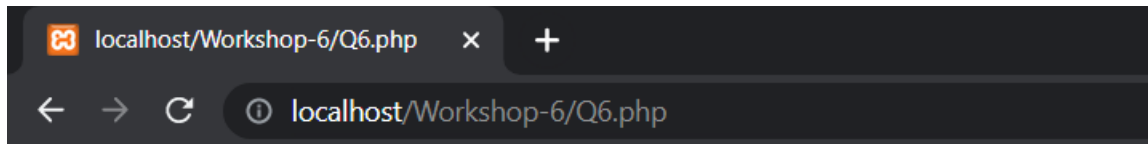
```
localhost/Workshop-6/Q5.php

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

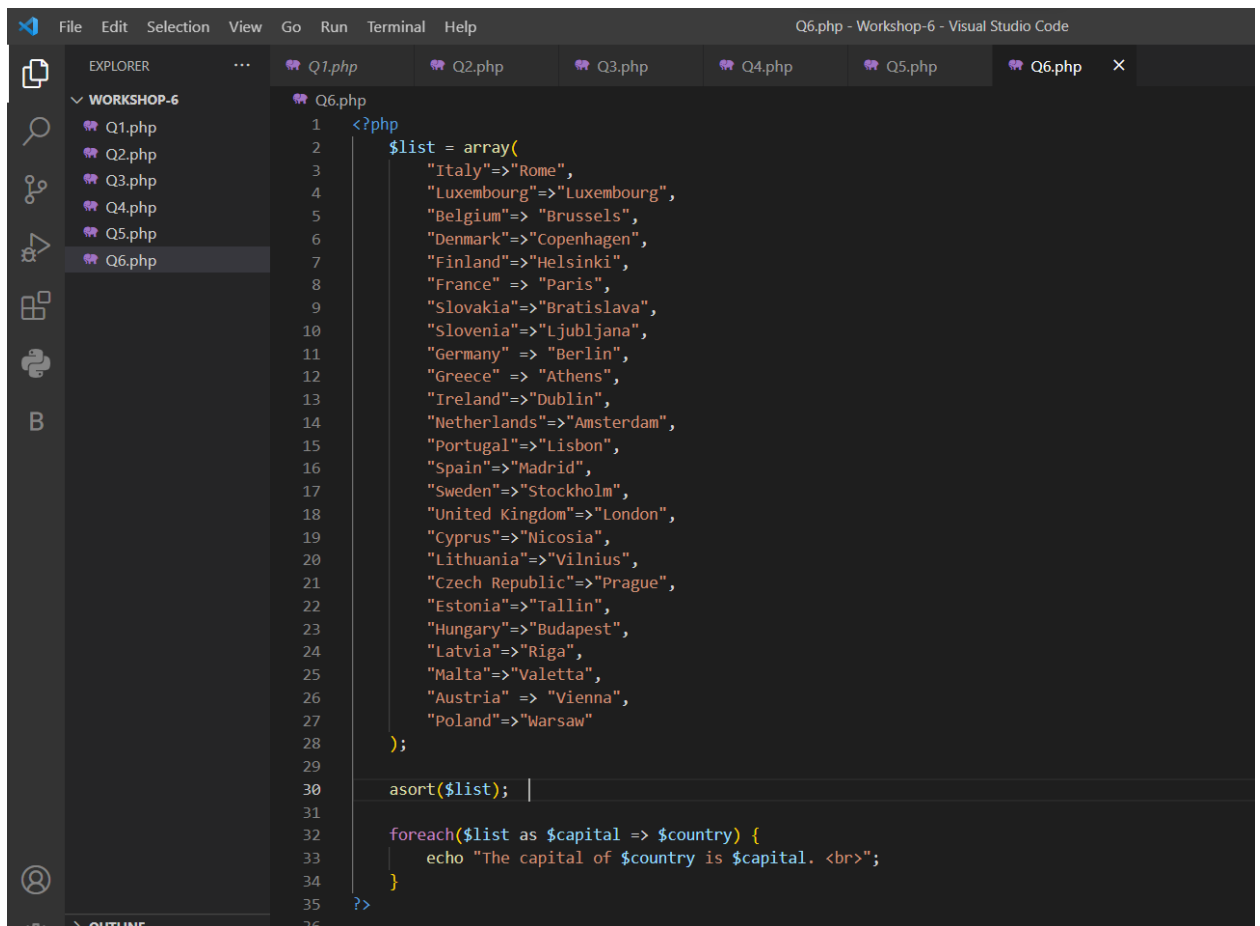


6. `$list = array( "Italy"=>"Rome", "Luxembourg"=>"Luxembourg", "Belgium"=> "Brussels",  
"Denmark"=>"Copenhagen", "Finland"=>"Helsinki", "France" => "Paris",  
"Slovakia"=>"Bratislava", "Slovenia"=>"Ljubljana", "Germany" => "Berlin", "Greece" =>  
"Athens", "Ireland"=>"Dublin", "Netherlands"=>"Amsterdam", "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.



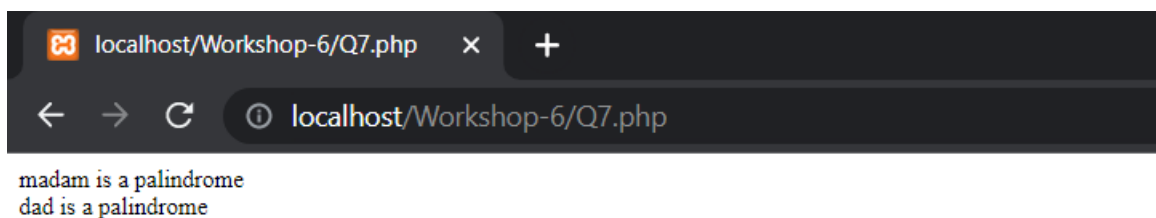
The capital of Amsterdam is Netherlands.  
The capital of Athens is Greece.  
The capital of Berlin is Germany.  
The capital of Bratislava is Slovakia.  
The capital of Brussels is Belgium.  
The capital of Budapest is Hungary.  
The capital of Copenhagen is Denmark.  
The capital of Dublin is Ireland.  
The capital of Helsinki is Finland.  
The capital of Lisbon is Portugal.  
The capital of Ljubljana is Slovenia.  
The capital of London is United Kingdom.  
The capital of Luxembourg is Luxembourg.  
The capital of Madrid is Spain.  
The capital of Nicosia is Cyprus.  
The capital of Paris is France.  
The capital of Prague is Czech Republic.  
The capital of Riga is Latvia.  
The capital of Rome is Italy.  
The capital of Stockholm is Sweden.  
The capital of Tallin is Estonia.  
The capital of Valetta is Malta.  
The capital of Vienna is Austria.  
The capital of Vilnius is Lithuania.  
The capital of Warsaw is Poland.



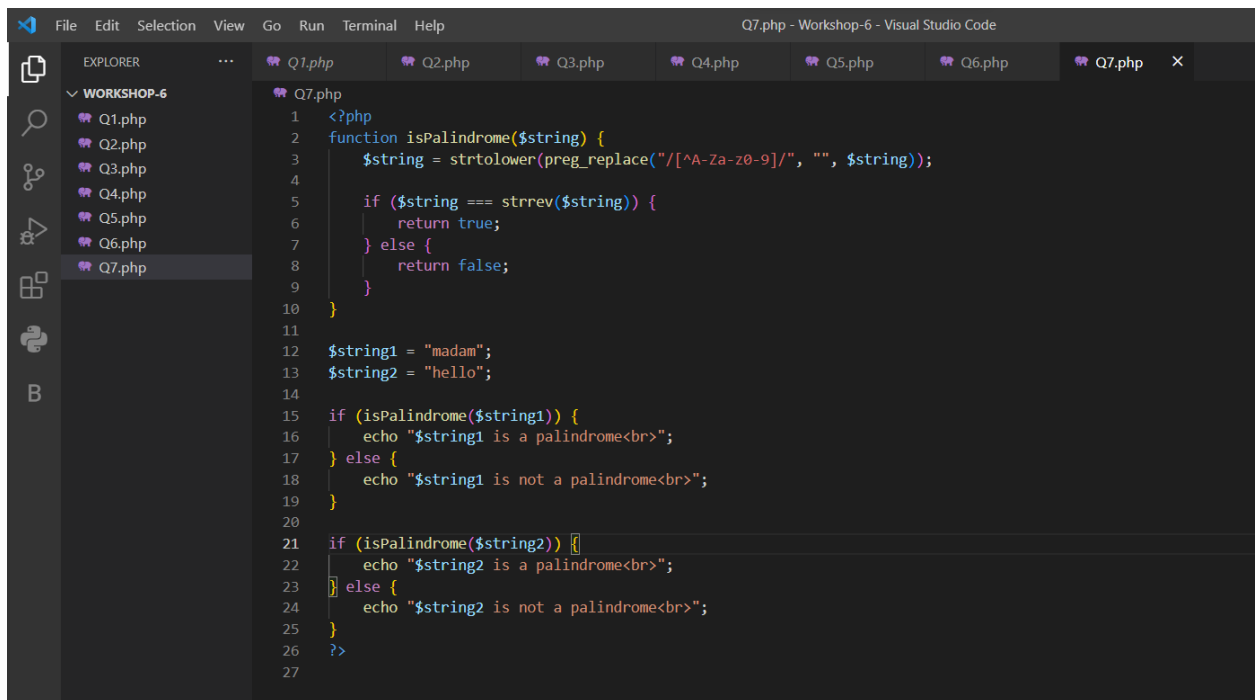
```
1 <?php
2 $list = array(
3     "Italy"=>"Rome",
4     "Luxembourg"=>"Luxembourg",
5     "Belgium"=>"Brussels",
6     "Denmark"=>"Copenhagen",
7     "Finland"=>"Helsinki",
8     "France" => "Paris",
9     "Slovakia"=>"Bratislava",
10    "Slovenia"=>"Ljubljana",
11    "Germany" => "Berlin",
12    "Greece" => "Athens",
13    "Ireland"=>"Dublin",
14    "Netherlands"=>"Amsterdam",
15    "Portugal"=>"Lisbon",
16    "Spain"=>"Madrid",
17    "Sweden"=>"Stockholm",
18    "United Kingdom"=>"London",
19    "Cyprus"=>"Nicosia",
20    "Lithuania"=>"Vilnius",
21    "Czech Republic"=>"Prague",
22    "Estonia"=>"Tallin",
23    "Hungary"=>"Budapest",
24    "Latvia"=>"Riga",
25    "Malta"=>"Valetta",
26    "Austria" => "Vienna",
27    "Poland"=>"Warsaw"
28 );
29
30 asort($list);
31
32 foreach($list as $capital => $country) {
33     echo "The capital of $country is $capital. <br>";
34 }
35 ?>
```

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



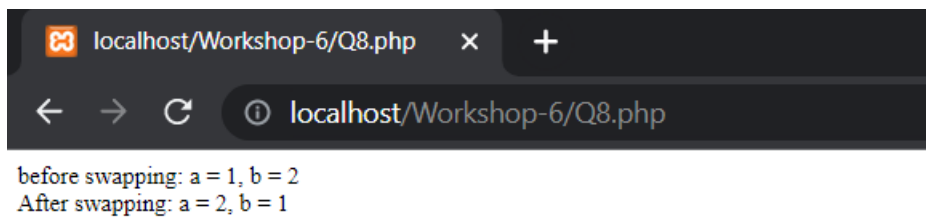
```
localhost/Workshop-6/Q7.php x +
localhost/Workshop-6/Q7.php
madam is a palindrome
dad is a palindrome
```



```
1 <?php
2 function isPalindrome($string) {
3     $string = strtolower(preg_replace("/[^A-Za-z0-9]/", "", $string));
4
5     if ($string === strrev($string)) {
6         return true;
7     } else {
8         return false;
9     }
10 }
11
12 $string1 = "madam";
13 $string2 = "hello";
14
15 if (isPalindrome($string1)) {
16     echo "$string1 is a palindrome<br>";
17 } else {
18     echo "$string1 is not a palindrome<br>";
19 }
20
21 if (isPalindrome($string2)) {
22     echo "$string2 is a palindrome<br>";
23 } else {
24     echo "$string2 is not a palindrome<br>";
25 }
26 ?>
27
```

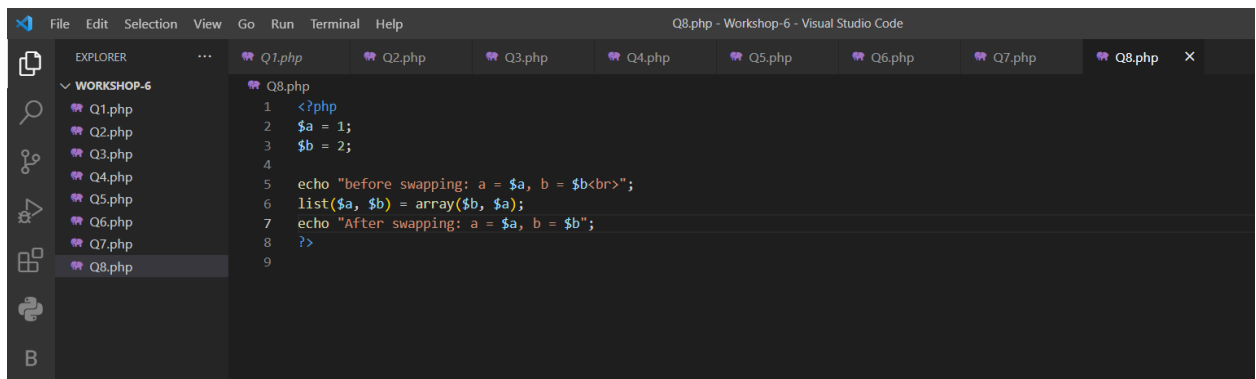
8. To swap two variables

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



```
localhost/Workshop-6/Q8.php x +
localhost/Workshop-6/Q8.php
before swapping: a = 1, b = 2
After swapping: a = 2, b = 1
```





The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a directory named 'WORKSHOP-6' with files Q1.php through Q8.php. The main editor window displays the code for Q8.php:

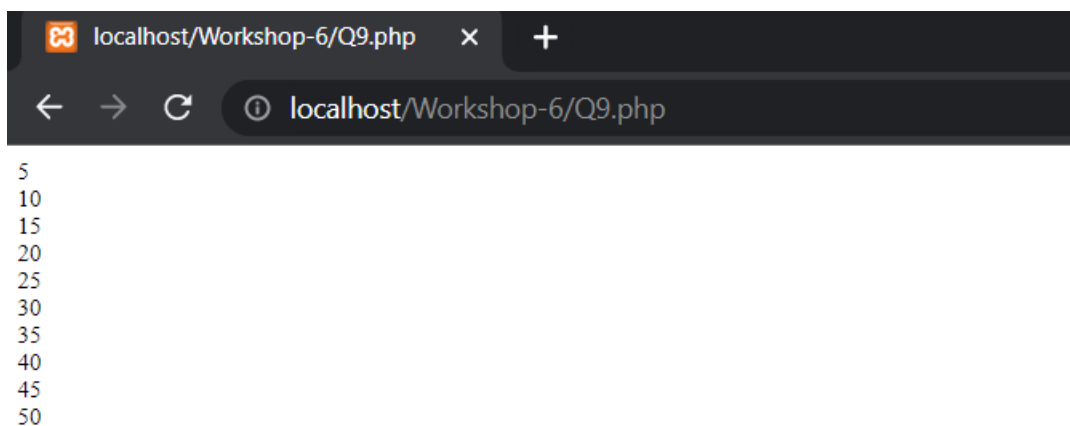
```
1 <?php
2 $a = 1;
3 $b = 2;
4
5 echo "before swapping: a = $a, b = $b<br>";
6 list($a, $b) = array($b, $a);
7 echo "After swapping: a = $a, b = $b";
8 ?>
9
```

9. To print the multiple of a given number

Example:

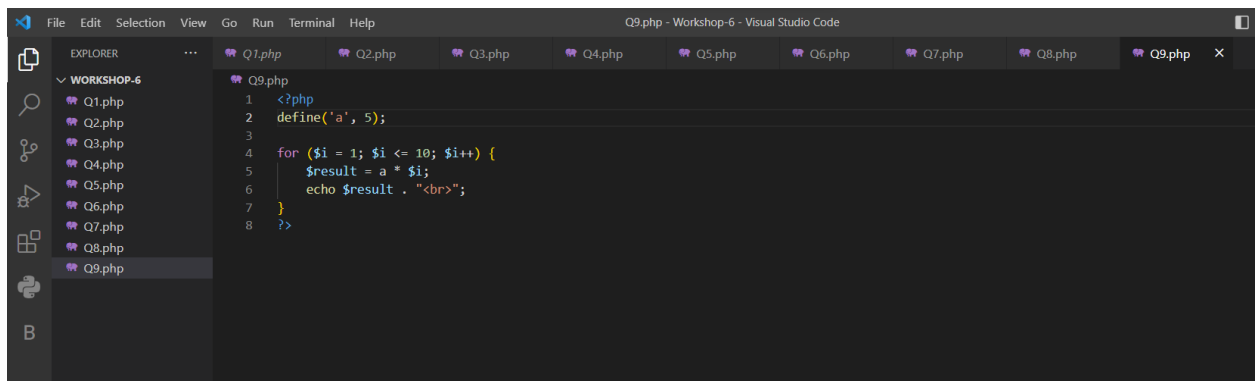
```
define('a',5);
```

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



The screenshot shows a web browser window with the address bar displaying 'localhost/Workshop-6/Q9.php'. The page content shows the output of the script, which is a list of multiples of 5 from 5 to 50, each on a new line:

```
5
10
15
20
25
30
35
40
45
50
```



The screenshot shows the Visual Studio Code interface with a file explorer on the left containing a directory named 'WORKSHOP-6' with files Q1.php through Q9.php. The main editor window displays the code for Q9.php:

```
1 <?php
2 define('a', 5);
3
4 for ($i = 1; $i <= 10; $i++) {
5     $result = a * $i;
6     echo $result . "<br>";
7 }
8 ?>
```

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

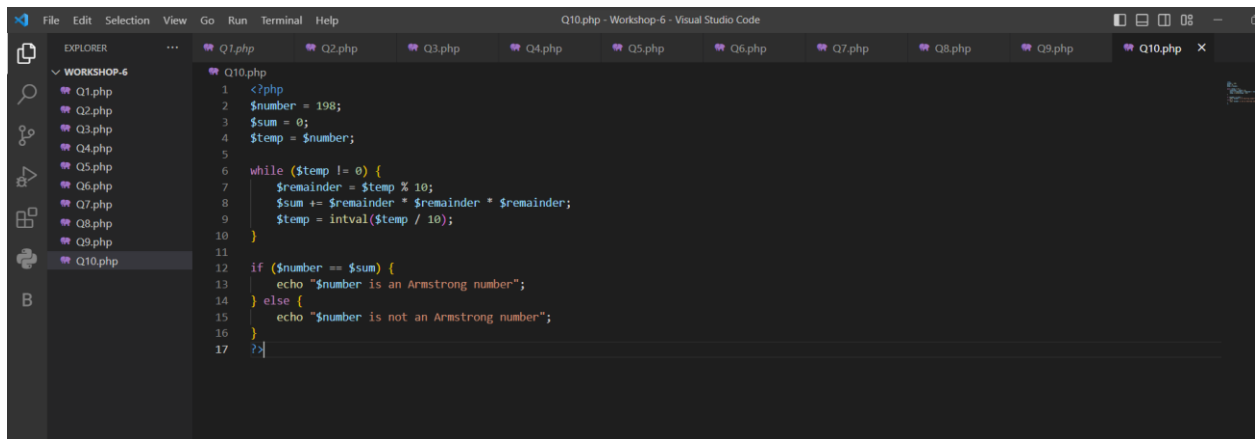
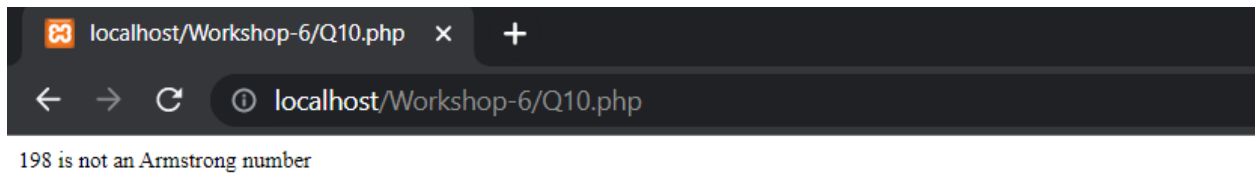
Example:

\$number = 153

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

Return Armstrong number

Other number: 1, 0, 371, 407 etc



11.

Name Age School		
John Garg	15	Ahicon Public school
Smith Soy	16	St. Marie school
Charle Rena	16	St. Columba School

Name Age School		
John Garg	15	Ahicon Public school
Smith Soy	16	St. Marie school
Charle Rena	16	St. Columba School