

BUILDING WEB APPS WITH PHP & MYSQL

IT013

LAB 2 - PHP BASICS

1. Scope of Knowledge:

- Understanding PHP operators and expressions
- Working with conditions and loops statement
- Working with functions in PHP
- Working with arrays
- Working with PHP template using include statement

2. Materials/Softwares/Tools:

- Visual Studio Code
- Apache and MySQL servers
- Chrome

3. Coding Convention:

4. Exercises:

❖ Exercise 1:

Write the following PHP script to demonstrate that variable names ARE case-sensitive.

```
<!DOCTYPE html>
<html>
<body>
<?php
$color = "red";
echo "My car is " . $color . "<br>";
echo "My house is " . $COLOR . "<br>";
echo "My boat is " . $coLOR . "<br>";
?>
</body>
</html>
```

❖ Exercise 2:

Write and run the following PHP script to demonstrate the if...elseif...else statement.

```
<!DOCTYPE html>
<html>
<body>
<?php
$t = date("H");
echo "<p>The hour (of the server) is " . $t;
echo ", and will give the following message:</p>";

if ($t < "10") {
    echo "Have a good morning!";
} elseif ($t < "20") {
    echo "Have a good day!";
} else {
    echo "Have a good night!";
}
?>
</body>
</html>
```

❖ Exercise 3:

Write the following PHP script to demonstrate the foreach loop.

```
<!DOCTYPE html>
<html>
<body>
<?php
$colors = array("red", "green", "blue", "yellow");
foreach ($colors as $value) {
    echo "$value <br>";
}
?>
</body>
</html>
```

❖ Exercise 4:

Create the following PHP script to get the return value from function.

```
<!DOCTYPE html>
<html>
<body>

<?php
function sum($x, $y) {
    $z = $x + $y;
    return $z;
}
echo "5 + 10 = " . sum(5,10) . "<br>";
echo "7 + 13 = " . sum(7,13) . "<br>";
echo "2 + 4 = " . sum(2,4);
?>
</body>
</html>
```

❖ Exercise 5:

Create the following PHP script to loop through an associative array.

```
<!DOCTYPE html>
<html>
<body>
<?php
$age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
foreach($age as $x => $x_value) {
    echo "Key=" . $x . ", Value=" . $x_value;
    echo "<br>";
}
?>
</body>
</html>
```

❖ Exercise 6:

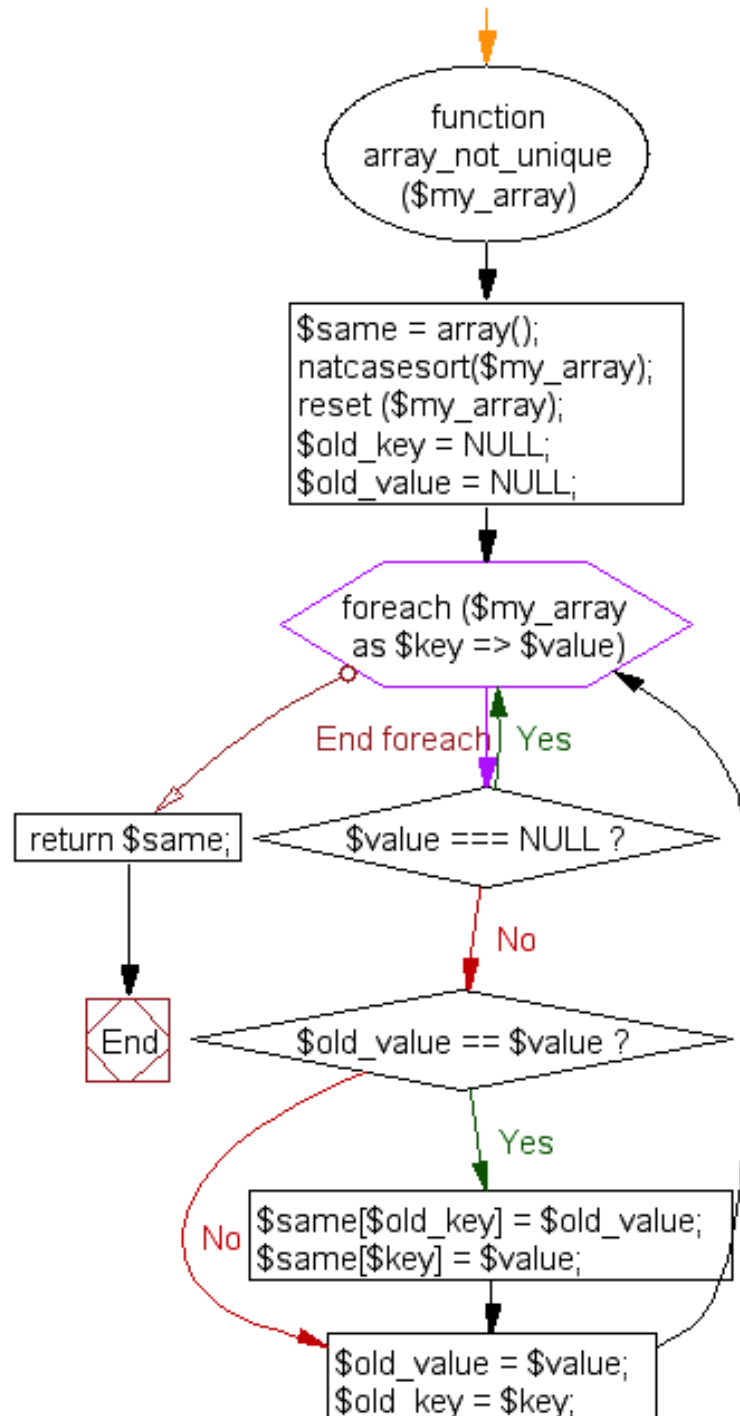
Write a PHP script to return the sum and average of 3 integer numbers.

Hint: Use function with parameters.

❖ **Exercise 7:**

Write a PHP program to identify the email addresses which are not unique.

Hint:

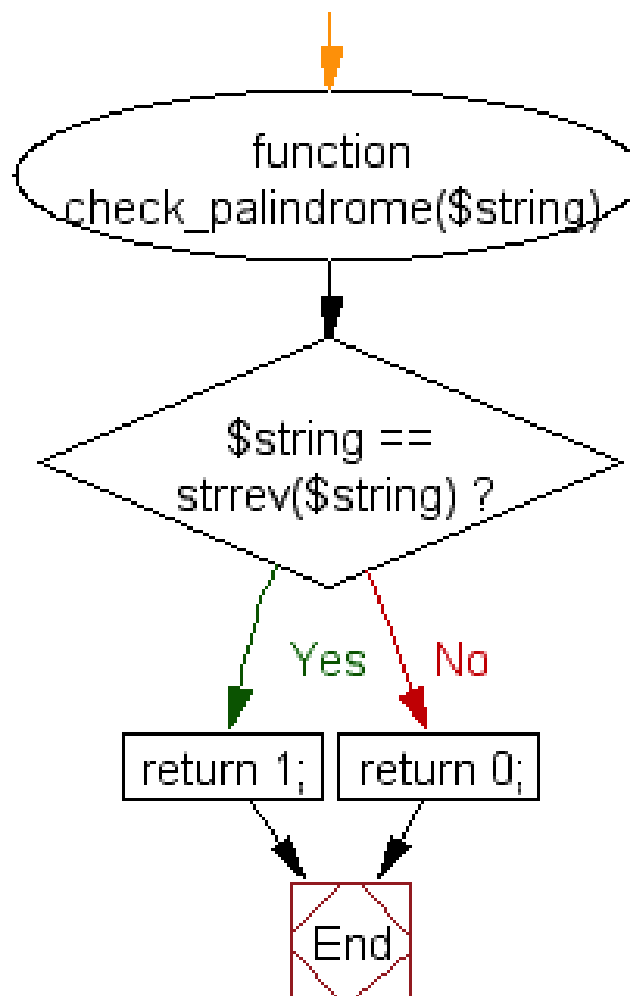


❖ **Exercise 8:**

Write a PHP script to check if an input string is a palindrome or not.

Hint:

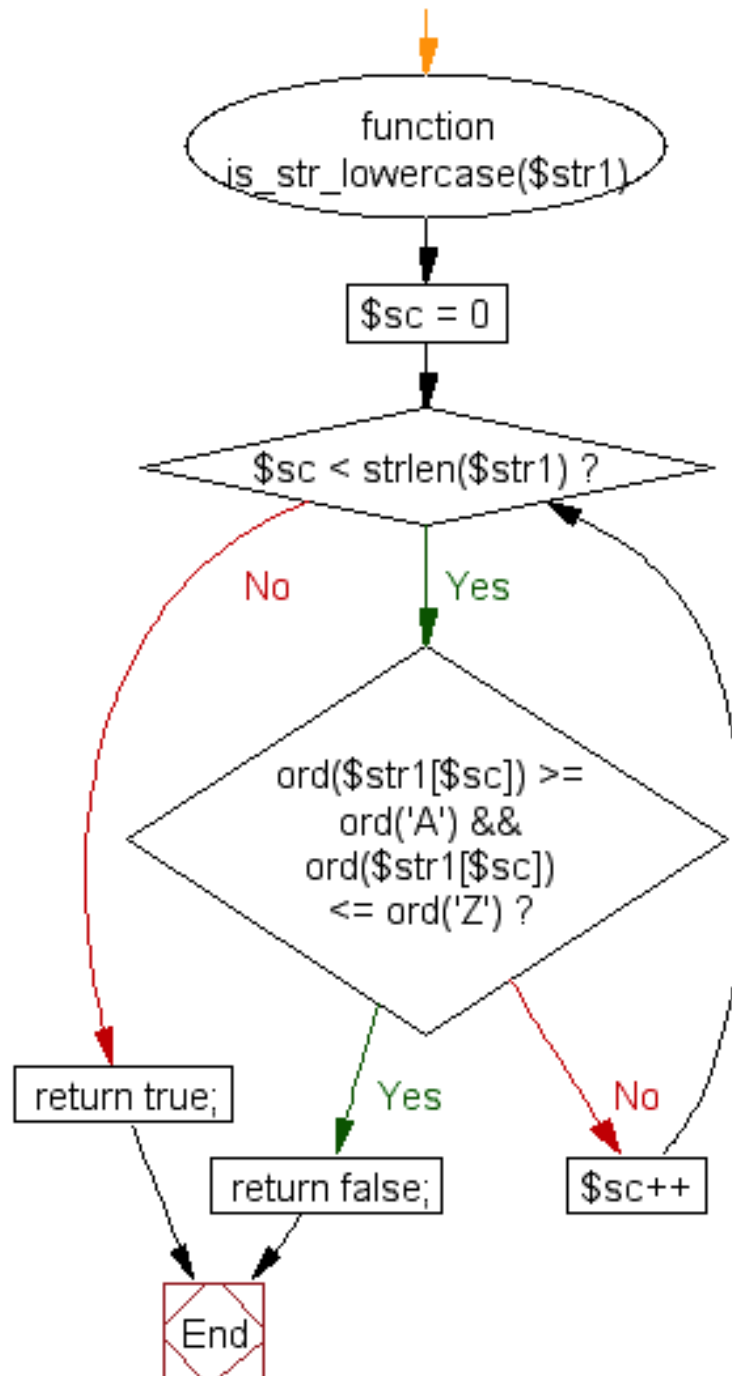
- Use function with parameters.
- A palindrome is a word, phrase, or sequence that reads the same backwards and forwards, e.g., madam or nurses run.



❖ **Exercise 9:**

Write a PHP function that checks if a string is all in lowercase.

Hint:



❖ **Exercise 10:**

Write a PHP script to display the following content correctly.



Máy Ảnh Canon SX730 HS (Hàng Nhập Khẩu) -...

7.690.000 đ ~~9.370.000 đ~~ -18%



Máy Ảnh Canon SX720 HS (Hàng Nhập Khẩu) -...

6.290.000 đ ~~7.870.000 đ~~ -20%



Máy Ảnh Canon Canon SX 620 HS (Hàng Nhập...)

4.890.000 đ ~~6.240.000 đ~~ -22%



Máy Ảnh Canon SX730 HS (Hàng Chính Hãng) -...

9.170.000 đ ~~10.620.000 đ~~ -14%



Máy Ảnh Canon Powershot G3X (Lê Bảo Minh)

16.990.000 đ ~~22.500.000 đ~~ -24%



Máy Ảnh Canon G9X Mark II (Hàng Nhập Khẩu) -...

9.490.000 đ ~~11.990.000 đ~~ -21%

Source: Products of Canon

Hint: Use , <div> or <table> tags with CSS styles and the for statement to display 6 cameras (using the given picture and information).

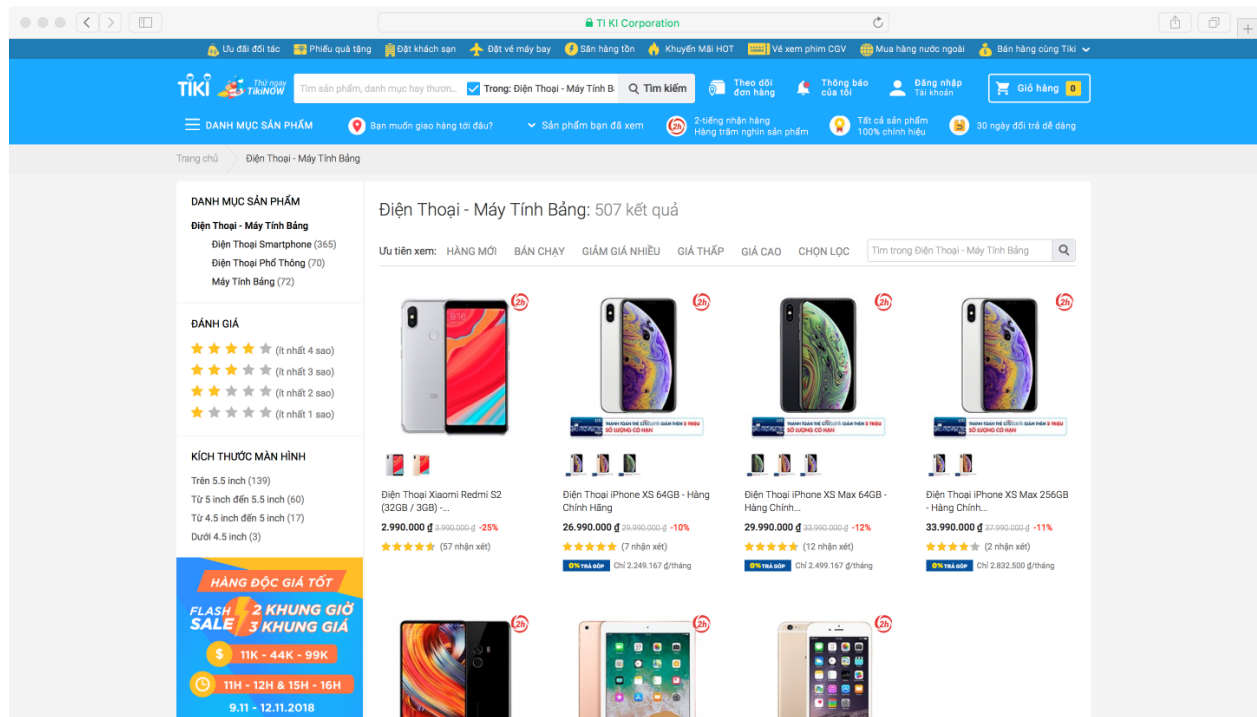
❖ **Exercise 11:**

Create a product page like Tiki's website

(<https://tiki.vn/dien-thoai-may-tinh-bang/c1789>).

Hint:

- Use , <div> or <table> tags with CSS styles and the for statement to display 6 cameras (using the given picture and information).
- Use the include statement to create a template with a header and footer.



Source: Tiki