# PHP Part 2

## **Topics**

- PHP Conditional Statements
- PHP Loops
- PHP Functions
- PHP Arrays
- PHP Global Variables

#### PHP Conditional Statements

- PHP we have the following conditional statements:
- if statement executes some code only if a specified condition is true
- if...else statement executes some code if a condition is true and another code if the condition is false
- if...elseif....else statement selects one of several blocks of code to be executed
- switch statement selects one of many blocks of code to be executed

### PHP - The if Statement

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

### PHP - The if Statement

```
<?php
$t=date("H");

if ($t<"20") {
   echo "Have a good day!";
}
}
</pre>
```

### PHP - The if...else Statement

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

### PHP - The if...else Statement

```
<?php
$t=date("H");
if ($t<"20") {
  echo "Have a good day!";
} else {
  echo "Have a good night!";
```

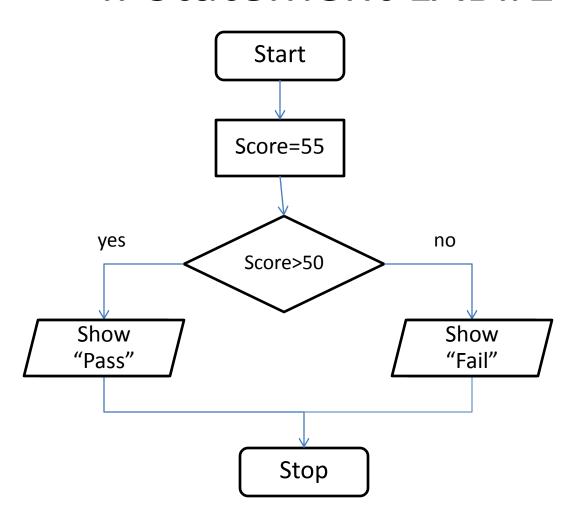
#### PHP - The if...elseif....else Statement

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

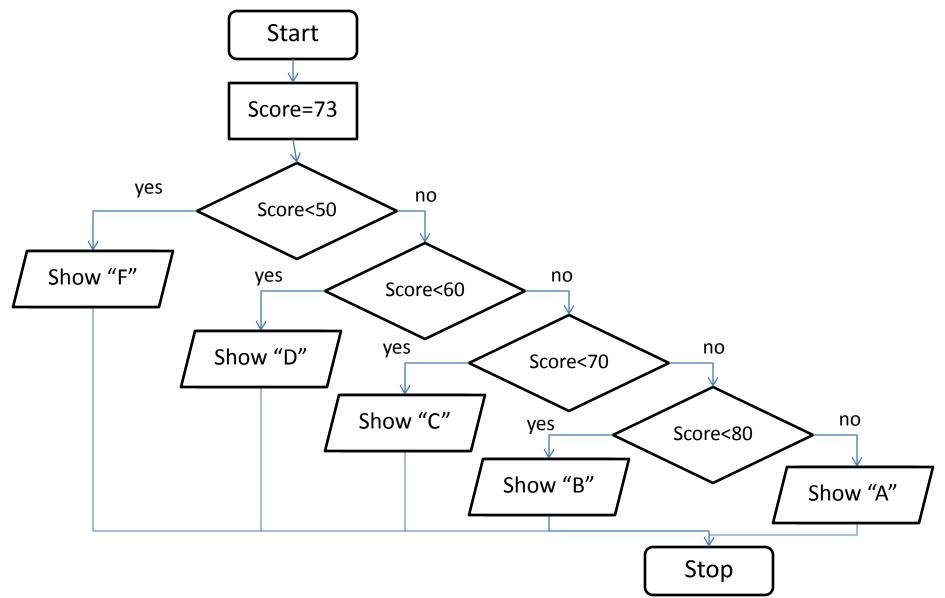
#### PHP - The if...elseif....else Statement

```
<?php
$t=date("H");
if ($t<"10") {
  echo "Have a good morning!";
} elseif ($t<"20") {</pre>
  echo "Have a good day!";
} else {
  echo "Have a good night!";
```

## if Statement LAB#1



### if Statement LAB#2



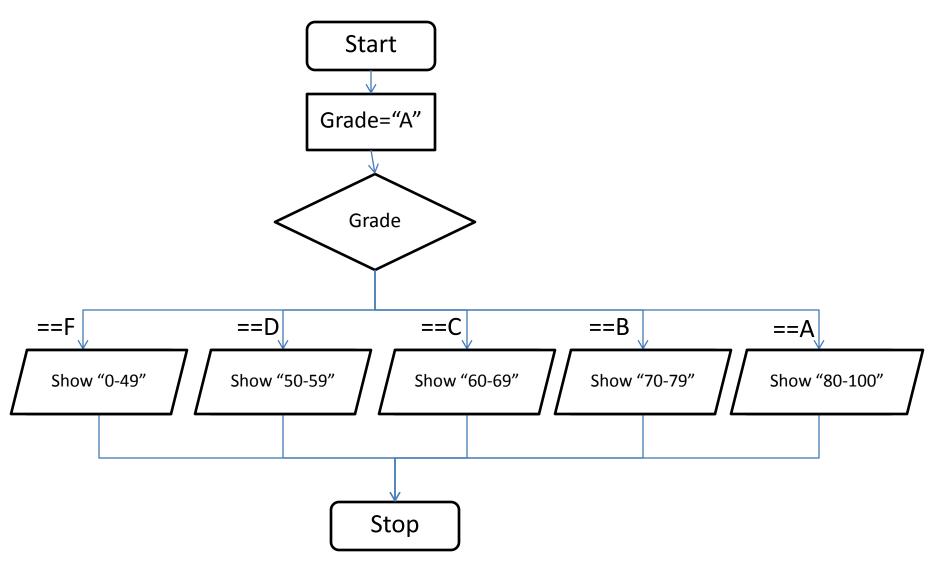
```
switch (n) {
 case label1:
  code to be executed if n=label1;
  break;
 case label2:
  code to be executed if n=label2;
  break;
 case label3:
  code to be executed if n=label3;
  break;
 default:
  code to be executed if n is different from all labels;
```

```
<?php
$favcolor="red";
switch ($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, or green!";
```

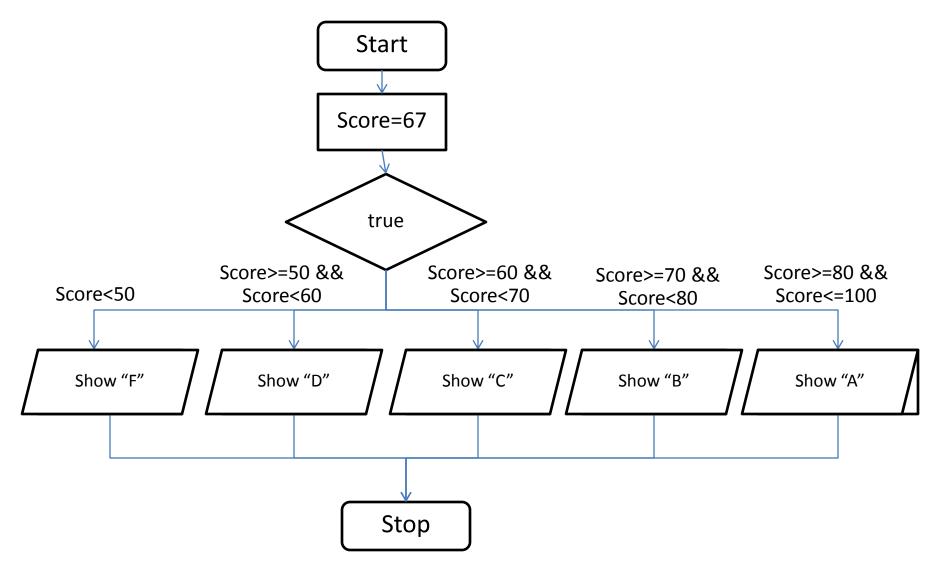
```
<?php
$t=date("H");
switch($t){
          case 8:
                     echo "กินข้าวเช้า";
                     break;
          case 12:
                     echo "กินข้าวเที่ยง";
                     break;
          case 18:
                     echo "กินข้าวเย็น";
                     break;
          default:
                     echo "ไม่กินข้าว";
```

```
<?php
$t=date("H");
switch(true){
          case ($t<12):
                     echo "ก่อนเที่ยง";
                     break;
          case ($t>12):
                     echo "หลังเที่ยง";
                     break;
          default:
                     echo "ไม่มีเวลา";
```

### switch Statement LAB#3



### switch Statement LAB#4



### PHP Loops

- In PHP, we have the following looping statements:
- while loops through a block of code as long as the specified condition is true
- do...while loops through a block of code once, and then repeats the loop as long as the specified condition is true
- for loops through a block of code a specified number of times
- foreach loops through a block of code for each element in an array

# The PHP while Loop

```
while (condition is true) {
  code to be executed;
}
```

# The PHP while Loop

```
<?php
$x=1;

while($x<=5) {
   echo "The number is: $x <br>";
   $x++;
}
}
```

## The PHP do...while Loop

```
do {
  code to be executed;
} while (condition is true);
```

## The PHP do...while Loop

```
<?php
$x=1;

do {
   echo "The number is: $x <br>";
   $x++;
} while ($x<=5);
?>
```

## The PHP for Loop

```
for (init counter; test counter; increment
  counter) {
  code to be executed;
}
```

## The PHP for Loop

```
<?php
for ($x=0; $x<=10; $x++) {
   echo "The number is: $x <br>";
}
```

# The PHP foreach Loop

```
foreach ($array as $value) {
  code to be executed;
}
```

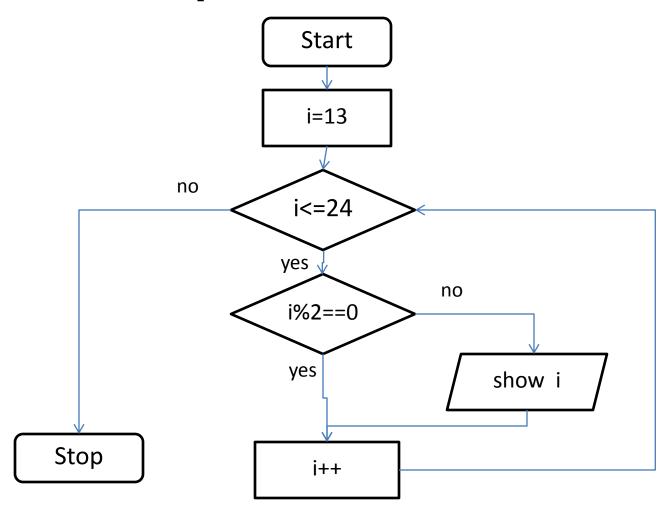
## The PHP foreach Loop

```
<?php
$colors = array("red","green","blue","yellow");

foreach ($colors as $value) {
   echo "$value <br>";
}
}
?>
```

PHP Loop LAB#5

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#### PHP Functions

- PHP User Defined Functions
- Besides the built-in PHP functions, we can create our own functions.
- A function is a block of statements that can be used repeatedly in a program.
- A function will not execute immediately when a page loads.
- A function will be executed by a call to the function.

#### Create a User Defined Function in PHP

```
function functionName() {
  code to be executed;
}
```

## PHP Function Arguments

```
<?php
function writeMsg() {
  echo "Hello world!";
}
writeMsg(); // call the function
?>
```

# PHP Default Argument Value

```
<?php
function familyName($fname) {
  echo "$fname Refsnes.<br>";
familyName("Jani");
familyName("Hege");
familyName("Stale");
familyName("Kai Jim");
familyName("Borge");
?>
```

# PHP Default Argument Values

```
<?php
function familyName($fname,$year) {
   echo "$fname Refsnes. Born in $year <br>";
}

familyName("Hege","1975");
familyName("Stale","1978");
familyName("Kai Jim","1983");
?>
```

## PHP Default Argument Value

```
<?php
function setHeight($minheight=50) {
   echo "The height is : $minheight <br>";
}

setHeight(350);
setHeight(); // will use the default value of 50
setHeight(135);
setHeight(80);
?>
```

## PHP Functions - Returning values

```
<?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);
?>
```

### PHP Functions LAB#6

- ทำฟังชั่น ลบ คูณ หาร
  - Minus (x,y)
  - Multiply (x,y)
  - Divide (x,y)

## PHP Arrays

An array stores multiple values in one single variable

## Create an Array in PHP

- In PHP, there are three types of arrays:
  - Indexed arrays Arrays with numeric index
  - Associative arrays Arrays with named keys
  - Multidimensional arrays Arrays containing one or more arrays

# **Indexed arrays**

```
<?php
$cars=array("Volvo","BMW","Toyota");
echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ".";
?>
```

# Get The Length of an Array

The count() Function

```
<?php
$cars=array("Volvo","BMW","Toyota");
echo count($cars);
?>
```

# Loop Through an Indexed Array

```
<?php
$cars=array("Volvo","BMW","Toyota");
$arrlength=count($cars);

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

# PHP Associative Arrays

```
<?php
$age=array("Peter"=>"35","Ben"=>"37","Joe"=>"43");
echo "Peter is " . $age['Peter'] . " years old.";
?>
```

# Loop Through an Associative Array

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

foreach($age as $x=>$x_value) {
   echo "Key=" . $x . ", Value=" . $x_value;
   echo "<br>";
}
}
```

## PHP - Sort Functions For Arrays

- In this chapter, we will go through the following PHP array sort functions:
  - sort() sort arrays in ascending order
  - rsort() sort arrays in descending order
  - asort() sort associative arrays in ascending order, according to the value
  - ksort() sort associative arrays in ascending order, according to the key
  - arsort() sort associative arrays in descending order, according to the value
  - krsort() sort associative arrays in descending order, according to the key

## Sort Array in Ascending Order - sort()

BMW Toyota Volvo

## Sort Array in Ascending Order - sort()

```
<?php
$numbers=array(4,6,2,22,11);
sort ($numbers);
$arrlength=count($numbers);
for ($x=0; $x<$arrlength; $x++)
   echo $numbers[$x];
   echo "<br>";
```

## Sort Array in Descending Order - rsort()

```
<?php
$cars=array("Volvo", "BMW", "Toyota");
rsort ($cars);
$clength=count($cars);
for (x=0; x<\clength; x++)
   echo $cars[$x];
   echo "<br>";
```

Volvo Toyota BMW

## Sort Array in Descending Order - rsort()

```
<?php
$numbers=array(4,6,2,22,11);
rsort ($numbers);
$arrlength=count($numbers);
for (x=0; x< \alpha); x< \alpha)
                                  22
   echo $numbers[$x];
   echo "<br>";
```

#### Sort Array in Ascending Order(Value)- asort()

```
<?php
$age=array("Peter"=>"50","Ben"=>"47","Joe"=>"33|");
asort($age);

foreach($age as $x=>$x_value)
     {
      echo "Key=" . $x . ", Value=" . $x_value;
      echo "<br>;
      }
?>
```

#### Sort Array in Ascending Order (Key) - ksort()

Key=Ben, Value=37 Key=Joe, Value=43 Key=Peter, Value=35

#### Sort Array in Descending Order (Value) - arsort()

Key=Joe, Value=43 Key=Ben, Value=37 Key=Peter, Value=35

#### Sort Array in Descending Order (Key) - krsort()

Key=Peter, Value=35 Key=Joe, Value=43 Key=Ben, Value=37

### PHP Global Variables - Superglobals

- The PHP superglobal variables are:
  - \$GLOBALS
  - \$ SERVER
  - \$ REQUEST
  - \$\_POST
  - \$\_GET
  - \$ FILES
  - \$\_ENV
  - \$\_COOKIE
  - \$\_SESSION

#### \$GLOBALS

```
<?php
$x = 75;
$y = 25;

function addition() {
    $GLOBALS['z'] = $GLOBALS['x'] + $GLOBALS['y'];
}

addition();
echo $z;
?>
```

#### \$\_SERVER

```
<?php
echo $_SERVER['PHP_SELF'];
echo "<br>";
echo $_SERVER['SERVER_NAME'];
echo "<br>";
echo $_SERVER['HTTP_HOST'];
echo "<br>";
echo $_SERVER['HTTP_REFERER'];
echo "<br>";
echo $_SERVER['HTTP_USER_AGENT'];
echo "<br>";
echo $_SERVER['SCRIPT_NAME'];
?>
```

# Collect Data after submitting an HTML Form

- \$\_REQUEST
- **\$\_POST**
- \$\_GET