

# Tutorial 08 –Conditional Statements

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## Learning Outcomes

1. Conditional statements
2. If-else statement
3. If-elseif-else statement
4. Date function and logical operators (&&) (||)

## PHP – Conditional Statements

- Very often when you write code, you want to perform different actions for different decisions.
- You can use conditional statements in your code to do this.
- In PHP we have the following conditional statements:
  - if statement - use this statement to execute some code only if a specified condition is true
  - if...else statement - use this statement to execute some code if a condition is true and another code if the condition is false
  - if...elseif....else statement - use this statement to select one of several blocks of code to be executed

Example (php02_01_if.php)	Explanation
<pre>&lt;?php \$d=date("D"); if (\$d=="Fri")     echo "Have a nice weekend!"; ?&gt;</pre>	<p>The following example will output "Have a nice weekend!" if the current day is Friday:</p>

## date function

## Description

```
string date ( string $format [, int $timestamp = time() ] )
```

Returns a string formatted according to the given format string using the given integer **timestamp** or the current time if no timestamp is given. In other words, **timestamp** is optional and defaults to the value of [time\(\)](#).

## Parameters

**format**

The format of the outputted date [string](#). See the formatting options below. There are also several [predefined date constants](#) that may be used instead, so for example **DATE\_RSS** contains the format string 'D, d M Y H:i:s'.

**The following characters are recognized in the [format](#) parameter string**

format character	Description	Example returned values
<i>Day</i>	---	---
<i>d</i>	Day of the month, 2 digits with leading zeros	01 to 31
<i>D</i>	A textual representation of a day, three letters	<i>Mon</i> through <i>Sun</i>

## Curly braces – statement blocks

- If more than one line should be executed if a condition is true/false, the lines should be enclosed within curly braces:

## Example (php02\_02\_if.php)

```
<?php
$d=date("D");
if ($d=="Fri") {
    echo "Hello!<br />";
    echo "Have a nice weekend!";
    echo "See you on Monday!";
}
?>
```

## PHP if-else statement

- If you want to execute some code if a condition is true and another code if a condition is false, use the if...else statement.

Example (php02_03_ifelse.php)	Explanation
<pre>&lt;?php \$d=date("D"); if (\$d=="Fri")     echo "Have a nice weekend!"; else     echo "Have a nice day!"; ?&gt;</pre>	<p>The following example will output "Have a nice weekend!" if the current day is Friday, otherwise it will output "Have a nice day!":</p>

## PHP if-elseif-else statement

- If you want to execute some code if one of several conditions is true, use the elseif statement.

Example (php02_04_elseif.php)	Explanation
<pre>&lt;?php \$d=date("D"); if (\$d=="Fri")     echo "Have a nice weekend!"; elseif (\$d=="Sun")     echo "Have a nice Sunday!"; else     echo "Have a nice day!"; ?&gt;</pre>	<p>The following example will output "Have a nice weekend!" if the current day is Friday, and "Have a nice Sunday!" if the current day is Sunday. Otherwise, it will output "Have a nice day!"</p>

## Logical Operators

Operator	Description	Example (x=6; y=3)
&&	And	(x < 10 && y > 1) returns true
	Or	(x==5    y==5) returns false
!	Not	!(x==y) returns true

### And Logical Operator

- If condition A is true, condition B is true, then condition A and condition B is true.
- If either condition A or condition B is false, then condition A and condition B is false.

Example (php02_05_and.php)	Explanation
<pre>&lt;?php \$CW_marks = 40; \$Exam_marks = 58; if (\$CW_marks &gt;= 40 &amp;&amp; \$Exam_marks &gt;= 50)     echo "Passed!"; else     echo "Failed!"; ?&gt;</pre>	<p>The following example will output "Passed!" if both conditions are true, otherwise it will output "Failed!":</p>

### Or Logical Operator

- If condition A is false, condition B is false, then condition A or condition B is false.
- If either condition A or condition B is true, then condition A or condition B is true.

Example (php02_06_or.php)	Explanation
<pre>&lt;?php \$CW_marks = 28; \$Exam_marks = 58; if (\$CW_marks &gt;= 40    \$Exam_marks &gt;= 50)     echo "Passed!"; else     echo "Failed!"; ?&gt;</pre>	<p>The following example will output "Passed!" if either one condition is true, otherwise it will output "Failed!":</p>

**Create a PHP if...else statement and test it with a Web server**

1. Use a text editor (e.g. Notepad) to type the following. Save the file with name SEHH1016\_T8\_ex.php, and put it in the **root directory** of your Apache Web server. It should be the “htdocs” folder by default.

```
<HTML>
  <BODY>
    <P> Second exercise: </P>

    <?php
      $numA = 2;
      $txtA = "2";

      if ($numA == $txtA)
      {
        echo "True";
      }
      else
      {
        echo "False";
      }
    ?>

  </BODY>
</HTML>
```

2. Save the file and view the result through the web server. Are “numA” and “txtA” equal?
3. Create two more variables: \$numB and \$txtB. Set \$numB as 12, \$txtB as “12”. Test the following comparison:
  - (a) \$numA > \$numB: \_\_\_\_\_
  - (b) \$txtA > \$txtB: \_\_\_\_\_
  - (c) \$numA > \$txtB: \_\_\_\_\_
  - (d) \$txtA > \$numB: \_\_\_\_\_
4. Create another variable \$numC. Set the value of \$numC with the following. What is the result when “echo \$numC” is executed?
  - (a) \$numA \* \$numB: \_\_\_\_\_
  - (b) \$txtA + \$txtB: \_\_\_\_\_
  - (c) \$numA . \$numB: \_\_\_\_\_
  - (d) \$txtA . \$txtB: \_\_\_\_\_