

# PHP - If...Else Statement

The ability to implement conditional logic is the fundamental requirement of any programming language (PHP included). PHP has three keywords (also called as **language constructs**) – **if**, **elseif** and **else** – are used to take decision based on the different conditions.

The **if** keyword is the basic construct for the conditional execution of code fragments. More often than not, the **if** keyword is used in conjunction with **else** keyword, although it is not always mandatory.

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

## Syntax

The usage and syntax of the **if** statement in PHP is similar to that of the C language. Here is the syntax of **if** statement in PHP –

```
if (expression)
    code to be executed if expression is true;
else
    code to be executed if expression is false;
```

The **if** statement is always followed by a Boolean expression.

- PHP will execute the statement following the Boolean expression if it evaluates to true.
- If the Boolean expression evaluates to false, the statement is ignored.
- If the algorithm needs to execute another statement when the expression is false, it is written after the **else** keyword.

## Example

Here is a simple PHP code that demonstrates the usage of **if else** statements. There are two variables \$a and \$b. The code identifies which one of them is bigger.

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```
<?php
$a=10;
$b=20;
if ($a > $b)
    echo "a is bigger than b";
else
    echo "a is not bigger than b";
?>
```

When the above code is run, it displays the following **output** –

a is not bigger than b

Interchange the values of "a" and "b" and run again. Now, you will get the following output –

a is bigger than b

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## Example

The following example will output "Have a nice weekend!" if the current day is Friday, else it will output "Have a nice day!" –

```
</> Open Compiler

<?php
$d = date("D");

if ($d == "Fri")
    echo "Have a nice weekend!";
else
    echo "Have a nice day!";
?>
```

It will produce the following **output** –

Have a nice weekend!

## Using endif in PHP

PHP code is usually intermixed with HTML script. We can insert HTML code in the **if** part as well as the **else** part in PHP code. PHP offers an alternative syntax for **if** and **else** statements. Change the opening brace to a colon (:) and the closing brace to **endif**; so that a HTML block can be added to the **if** and **else** part.

&lt;/&gt;

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```
<?php
    $d = date("D");

    if ($d == "Fri"): ?>
        <h2>Have a nice weekend!</h2>

    <?php else: ?>
        <h2>Have a nice day!</h2>
<?php endif ?>
```

Make sure that the above script is in the document root of PHP server. Visit the URL **<http://localhost/hello.php>**. Following output should be displayed in the browser, if the current day is not a Friday –

Have a nice day!

## Using elseif in PHP

If you want to execute some code if one of the several conditions are true, then use the **elseif** statement. The **elseif** language construct in PHP is a combination of **if** and **else**.

- Similar to **else**, it specifies an alternative statement to be executed in case the original **if** expression evaluates to false.
- However, unlike **else**, it will execute that alternative expression only if the **elseif** conditional expression evaluates to true.

```
if (expr1)
    code to be executed if expr1 is true;
elseif (expr2)
    code to be executed if expr2 is true;
else
    code to be executed if expr2 is false;
```

## Example

Let us modify the above code to display a different message on Sunday, Friday and other days.

&lt;/&gt;

Open Compiler

```
<?php
    $d = date("D");
    if ($d == "Fri")
        echo "<h3>Have a nice weekend!</h3>";

    elseif ($d == "Sun")
        echo "<h3>Have a nice Sunday!</h3>";

    else
        echo "<h3>Have a nice day!</h3>";
?>
```

On a Sunday, the browser shall display the following **output** –

Have a nice Sunday!

## Example

Here is another example to show the use of **if-elseif-else** statements –

&lt;/&gt;

Open Compiler

```
<?php
    $x=13;
    if ($x%2==0) {
        if ($x%3==0)
```

```
        echo "<h3>$x is divisible by 2 and 3</h3>";
    else
        echo "<h3>$x is divisible by 2 but not divisible by 3</h3>";
    }

    elseif ($x%3==0)
        echo "<h3>$x is divisible by 3 but not divisible by 2</h3>";

    else
        echo "<h3>$x is not divisible by 3 and not divisible by 2</h3>";
?>
```

The above code also uses **nestedif** statements.

For the values of **x** as 13, 12 and 10, the **output** will be as follows –

```
13 is not divisible by 3 and not divisible by 2
12 is divisible by 2 and 3
10 is divisible by 2 but not divisible by 3
```