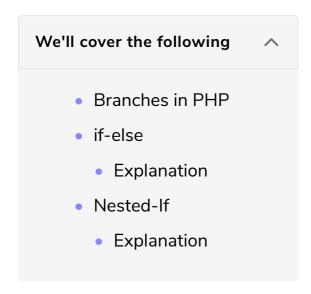
if-else Statement

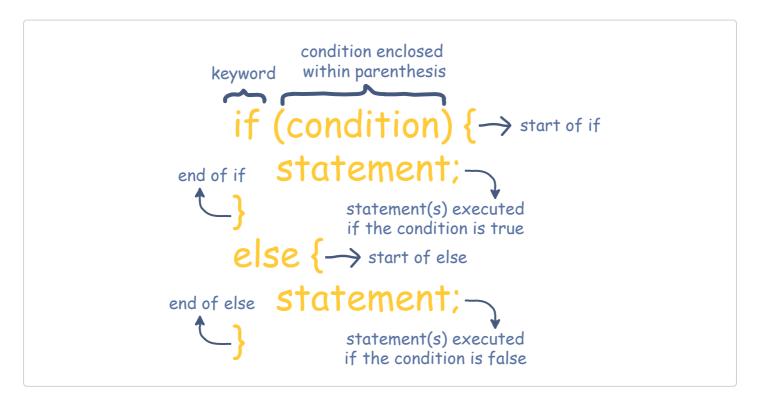
This lesson discusses if-else statements in detail including nested-ifs using examples.



Branches in PHP

Programming in general often requires a *decision* or a *branch* within the code to account for how the code operates under different inputs or conditions.

Within the **PHP** programming language, the simplest and sometimes the most useful way of creating a branch within your program is through an if-else statement.

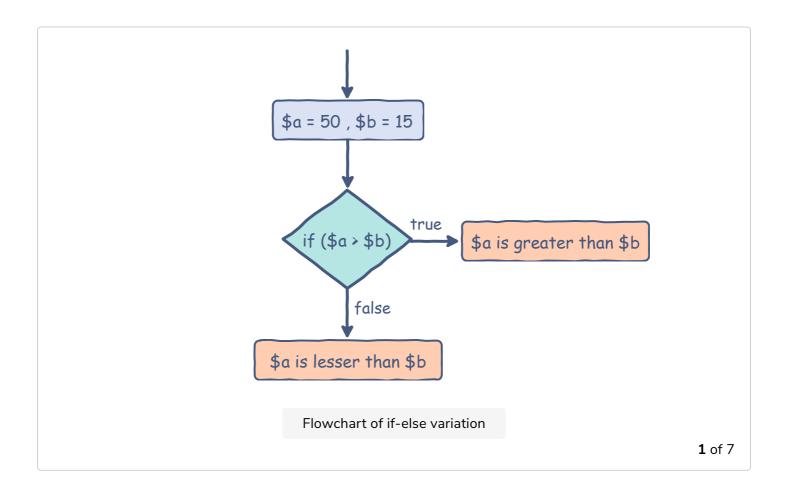


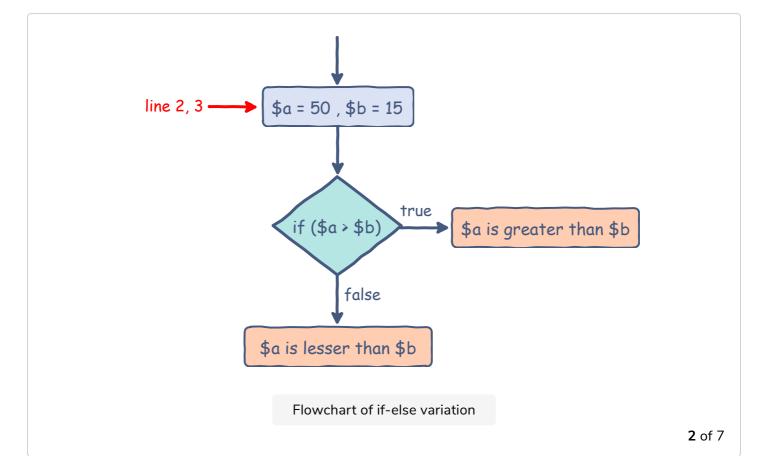
it-eise

Let's start by taking a look at an example which checks if a variable a is greater than or less than b:

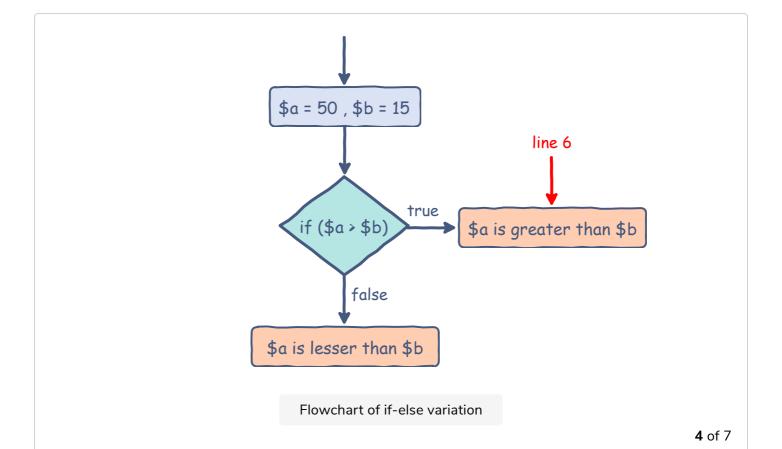
```
<?php
$a = 50; //change the value of "a" so its less than b in order to execute the else statement
$b = 15;
if ($a > $b)
{
    //this code is executed only if $a is greater than $b
    echo "a is greater than b";
}
else
{
    //this code is executed if the preceding "if" condition evaluated to false
    echo "a is less than b";
}
?>
```

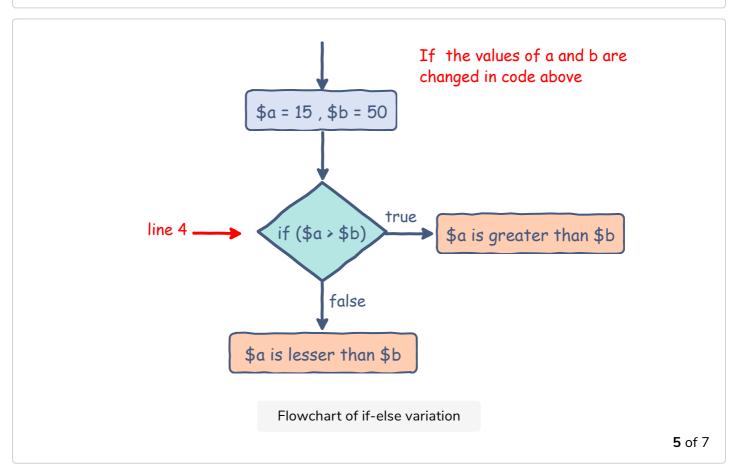
The figure below illustrates how the working of the above code snippet using a flow chart:

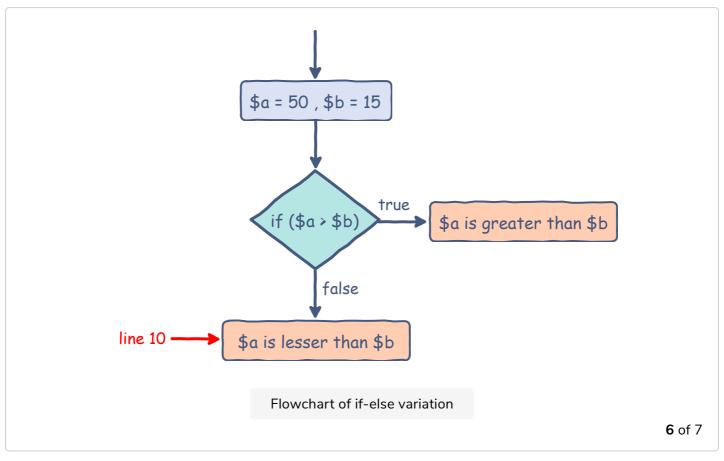


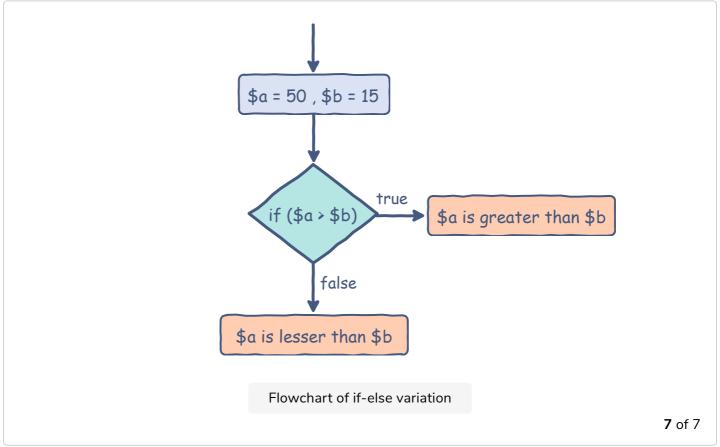


 $\begin{array}{c} \$ a = 50 \ , \$ b = 15 \\ \hline \\ \$ a \text{ is } (\$ a > \$ b) \\ \hline \\ \$ a \text{ is } greater \text{ than } \$ b \\ \hline \\ \$ a \text{ is } lesser \text{ than } \$ b \\ \hline \\ \hline \\ \$ a \text{ is } lesser \text{ than } \$ b \\ \hline \\ \$









Explanation

Line 4:

- In this line note that there is space between the keyword if and the *opening* parenthesis.
- Inside the parentheses is the **condition**; in this case, it is a comparison using **greater** than operator between two values.
- It is a good practice to use the **same** type of *arguments* (not comparing *floating-point* values to *characters*).
- Note also the **left** *curly brace* { . This symbol denotes a block of *multiple* lines of code. Without it, the conditional would only refer to the statement immediately following it.
- It is a good practice to always use the braces.

Line 6:

• This comment represents the *body* of the conditional statement.

Line 8:

- The *right* curly brace is **essential**; it matches the *opening brace* on line **4** and signals the *end* of the **if** body.
- This line is optional. If there is a sort of "default" behavior that should be carried out, it would be placed here.
- The else clause does not belong by itself, only directly following an if clause.

Line 10:

• This is the body of the else clause.

Line 11:

• This *curly* brace is also **essential**; it matches the *opening* brace on line **8** and signals the end of the **else** body.

The body of the else block can be another if statement. This is known as "nested conditionals" because the conditionals are indeed nested; that is, placed inside of

one another.

Nested-If

Here one if-else block is nested within another. One has to be careful in closing the inner if before closing the outer if.

```
if(condition1){
  //execution statement(s)
  if(condition2){
    //execution statement(s)
  }//end of inner if
  else{
    //execution statement(s)
  }//end of inner else
}//end ofouter if
else{
    //execution statement(s)
}//end ofouter else
```

Explanation

In the code block above if

- condition1 is true then
 - after executing the execution statement(s), code flows to the condition2
 check.
 - Based on the result either execution statement(s) of the nested if or
 else are executed.
- condition1 is false then
 - code flows to else statement in line 13 and the execution statements of this else get executed.

Now let's take a look at the if-elseif-else statements in the upcoming lesson.