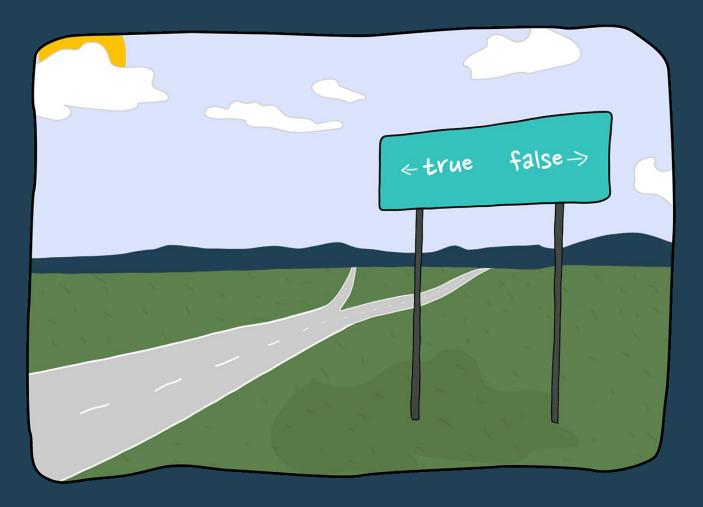
Web Programming #6 PHP - Conditionals



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Conditionals



Computers aren't intelligent, in order for them to make decisions they have to be programmed with a set of rules to follow.

```
if (/*some condition*/) {
  // Do something...
}
```



If Statements - Exercise

```
<?php
    $learner one = ["is correct"=>FALSE, "box"=>["shape"=>"none", "color"=>"none"]];
    $learner two = ["is correct"=>TRUE, "box"=>["shape"=>"none", "color"=>"none"]];
   function markAnswer ($is answer correct, &$box){
       if ($is answer correct){
            $box["shape"] = "checkmark";
            $box["color"] = "green";
        } else {
            $box["shape"] = "x";
            $box["color"] = "red";
   markAnswer($learner one["is correct"], $learner one["box"]);
   markAnswer($learner two["is correct"], $learner two["box"]);
   print r($learner one["box"]);
   print r($learner two["box"]);
3>
```



If Statements - Comparison Operators Exercise

- 1. Write a function chooseCheckoutLane(). This function should take in a single number argument representing the number of items a customer has. If the customer has 12 items or fewer, the function should return "express lane". Otherwise, the function should return "regular lane".
- 2. In the U.S., citizens can vote if they are 18 years old or older. Write a function <code>canIVote()</code> that takes in a number representing an age, and return the string "yes" if they can vote, and the string "no" if they cannot.
- Tested your functions to make sure they work with various inputs. Test each of your functions twice with FALSE and TRUE conditions.



If Statements - Identical & !Identical Operators

- 1. Write a function agreeOrDisagree() that takes in two strings, and returns "You agree!" if the two strings are the same and "You disagree!" if the two strings are different.
- 2. Test your function! Invoke it once with a value that will result in the if block running and once with a value that won't.



Elseif Statements

- Make programs far more complex.
- We can write conditionals with multiple if statements using the elseif construction

```
$grade = 88;
if ($grade < 60) {
    echo "You got an F";
} elseif ($grade < 70) {</pre>
    echo "You got a D";
} elseif ($grade < 80) {</pre>
    echo "You got a C";
} elseif ($grade < 90) {</pre>
    echo "You got a B";
} else {
    echo "You got an A";
```



Switch Statement

Switch statement, an alternate syntax for conditional.

```
if ($letter_grade === "A"){
    echo "Terrific";
} elseif ($letter_grade === "B") {
    echo "Good";
} elseif ($letter_grade === "C") {
    echo "Fair";
} elseif ($letter_grade === "D") {
    echo "Needs Improvement";
} elseif ($letter_grade === "F") {
    echo "See me!";
} else {
    echo "Invalid grade";
}
```

```
switch ($letter grade){
    case "A":
      echo "Terrific";
      break;
    case "B":
      echo "Good";
      break;
    case "C":
      echo "Fair";
      break;
    case "D":
      echo "Needs Improvement";
      break;
    case "F":
      echo "See me!";
      break:
    default:
      echo "Invalid grade";
```



Switch Statements: Fall through

- The keyword break tells the computer to break out of the switch statement, without it, it will fall through.
- But it can be useful when we want multiple cases to execute the same code.

```
switch ($day_of_week) {
    case "Monday":
    case "Tuesday":
      echo "Just getting started!";
      break;
    case "Wednesday":
      echo "Humpday!";
      break;
    case "Thursday":
    case "Friday":
      echo "Almost the weekend!";
      break;
    case "Saturday":
    case "Sunday":
      echo "Enjoy!";
      break;
```



Switch Statements: Fall through - Exercise

Write a function, returnSeason(). Your function should take in a string representing a month (e.g. "January"), and it should return which season that month falls in.

- "December", "January", and "February" are "winter" months.
- "March", "April", and "May" are "spring" months.
- "June", "July", and "August" are "summer" months.
- And "September", "October", and "November" are "fall" months.

Your function should use a switch statement and fall through to accomplish this task.



Ternary Operator

PHP offers a short-hand syntax to conditionally return a value

```
$isClicked = FALSE;
if ( $isClicked ) {
    $link_color = "purple";
} else {
    $link_color = "blue";
}
```



```
$isClicked = FALSE;
$link_color = $isClicked ? "purple" : "blue";
```



Ternary Operator

- 1. In a previous exercise, you wrote a function chooseCheckoutLane() using an if/else. Write a version of this function called ternaryCheckout()
- 2. In a previous exercise, you wrote a function canIVote() using an if/else. Write a version of this function called ternaryVote()
- Test each of your functions twice—once with an input will fulfill the condition and once with an input that won't.



Logical Operators

Logical Operators

Example	Name	Result
\$a and \$b	And	TRUE if both \$a and \$b are TRUE.
\$a or \$b	Or	TRUE if either \$a or \$b is TRUE.
\$a xor \$b	Xor	TRUE if either \$a or \$b is TRUE, but not both.
! \$a	Not	TRUE if \$a is not TRUE.
\$a && \$b	And	TRUE if both \$a and \$b are TRUE.
\$a \$b	Or	TRUE if either \$a or \$b is TRUE.



Logical Operators - Examples

```
<?php
   $banana cream = ["whole milk", "egg yolks", "bananas", "heavy cream", "powdered sugar"];
   $experimental_pie = ["whole milk", "sugar", "bananas", "chicken", "salmon", "garlic"];
   // Write your code below:
   function eatPie($ingredients){
       if (in array("chicken", $ingredients) xor in array("bananas", $ingredients)){
            return "Delicious pie!";
        } else {
            return "Disgusting!";
   echo eatPie($banana cream);
   echo "\n\n";
   echo eatPie($experimental pie);
?>
```



Multi-File Programs: include

```
header.php
index.php
footer.php
```

```
// header.php
echo "This is Header";
```

```
// index.php
include "header.php";
echo "This is The Content";
include "footer.php";
```

```
// footer.php
echo "This is Footer";
```



Assignment

header.php

Lapak mainan

Home

Profil

Product

Portofolio

Contact

Selamat datang

Anda pasti sedang mencari mainan untuk buah hati anda yaaa...?. Adalah pilihan tepat anda mengunjungi website kami. Karena kami menjual bermacam – macam mainan mulai dari bayi hingga dewasa. Kami memberikan kemudahan bagi anda dalam berbelanja mainan anak. Dengan adanya Toko Online di surabaya maka tidak perlu lagi datang ke tempat toko mainan. Motto Kami "Tinggal Klik website kami, call dan Cash On Delivery untuk wilayah Surabaya dan Sidoarjo. Mainan yang kami tawarkan adalah mainan yg berkualitas, dan aman untuk anak anda. Zat pewarna mainan tidak mengandung bahan racun. Sesuaikan mainan sesuai umur yang tertera di produk kami. Harga mainan di toko online kami tentunya lebih murah dari pada di Mall-Mall, hal ini dikarenakan kami tidak memerlukan biaya untuk menyewa stand Toko sehingga kami dapat menekan biaya sehingga mainan anak yang kami tawarkan jauh lebih murah.

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menu.php

footer.php