



Professional Diploma in Commercial Web Design

Lesson 2

PHP

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Operands II

- String operators
- Use a period(.) to combine a variable and a string
- `$a="mary";$b="chan";`
- `$name=$a.$b`
- `Operands2.php`

Operands III

- Assignment operators
- \$a=ooo;
- \$b="ooo";
- operand3.php

Operands IV

- and, && – both true
- or, || – either true
- ! – not, opposite
- !=, <> - not equal
- xor
- &, |, ~(not), ^(xor), >>, <<(move left/right) - for bit checking

Operands V

Case 1	Case 2
✓	✓
✗	✗

And	✓	✗
✓	✓	✗
✗	✗	✗

OR	✓	✗
✓	✓	✓
✗	✓	✗

NOT	!
✓	✗
✗	✓

Combination Assignment Operators

- `$a += $b`; same as `$a=$a+$b`
- `$a -= $b`; same as `$a=$a-$b`
- `$a *= $b`; same as `$a=$a*$b`
- `$a /= $b`; same as `$a=$a/$b`
- `$a %= $b`; same as `$a=$a%$b`
- `$a .= $b`; same as `$a=$a.$b`
- Pre.txt

Pre- and Post-Increment and Decrement

- \$a=1;
- echo ++\$a; same as \$a+=1;
- echo --\$a; same as \$a-=1;
- echo \$a++; same as \$a+=1;
- echo \$a--; same as \$a-=1;
- incremental.txt

Constants

- Value that cannot be changed after setup
- Define ("CAR", "honda");
- Usually use all upper-case letter to distinguish from function name
- No dollar sign
- constant.php

Predefined Constants

- Some constants has already been predefined in PHP.
- predefinedConstant.php



Break

Array is coming next...

Overview

- The uses of arrays
- What are arrays
- How to declare arrays
- Multidimensional array
- Inspecting array

Variable Array

Name 1

Name 2

Name 3

Dave

John

Mary

Name

1

Dave

2

John

3

Mary

The uses of arrays

- Store many variables in one variable name
- No difference in data entry, but save a lot of time in generating a result
- How to write that in PHP?

What are arrays

- an orderly arrangement
- indexed collection of data values
- A series of variables (or objects) that are of the same size and type

How to declare arrays

- \$array[0] = "first thing";
- \$array[1] = "second thing";
- \$array['green'] = "john";
- Array key is 0, 1 green
- Array value first thing, second thing, john

Exercise

- Set student info to an array from student.php
- Student.php

Multidimensional array

- Usually use two dimensional array but no limit of x-dimensional array
- Two dimensional array \$multi_array['A'][1]="dumping";
- Three dimensional array
\$multi_array['sheet1']['A'][1]="dumping";
- car.xls

Overview

- If statement
- While loop
- Do while loop
- For loop

If statement

- For a special condition, use if for making a decision
- if only
- if {} else {}
- if {} elseif {} else {}

If statement

- if (condition){
- statement;
- }

- if (\$marks==100){
- echo "you get full marks";
- }
- if (\$marks<60){
- echo "you are fail";
- }

If statement

- if (condition){
 - statement1;
 - }else{
 - statement2;
 - }
-
- if (\$marks>=60){
 - echo "you are pass";
 - } else {
 - echo "you are fail";
 - }

If statement

- if (condition1){
- statement1;
- }elseif(condition2){
- statement2;
- }elseif(condition3){
- statement3;
- }

If statement

- if (condition1){
- statement1;
- }elseif(condition2){
- statement2;
- }elseif(condition3){
- statement3;
- }else{
- statement4;
- }

If statement

- if (\$marks==100){
- echo "you get full marks";
- } elseif (\$marks>=60){
- echo "you are pass";
- } else {
- echo "you are fail";
- }

Classwork

- 100="full marks"
- >90="A"
- >80="B"
- >70="C"
- >=60="D"
- <60="fail"

Operands V

symbol	meaning
<code>==</code>	equal
<code>!=</code>	not equal
<code><</code>	less than
<code>></code>	greater than
<code><=</code>	less than or equal to
<code>>=</code>	greater than or equal to
<code>==</code>	same type

White spacing

- Easier for debugging
- Usually use tab for under each blanket
- Highlight the code
- Use "Ctrl+Shift+>" or "Ctrl+Shift+<" for formatting

While loop

- Also relies on a condition, but it executes repeatedly for as long as the condition is true
- See while.php
- Loop forever if this has been setup incorrectly
- \$num=6;
- IE -> Stop

Do while loop

- Very similar to while loop, but it executes at least once before checking the condition
- See dowhile.php

For loop

- Similar to while loop. Also relies on a condition, but we set a counter to begin.
- Initialize a counter
- Set condition
- At the end of each iteration, we modified the counter

For loop

- `for (init; condition; update){`
 - `statement;`
 - `}`
-
- `for ($num=1; $num<=5; $num++) {`
 - `echo $num."
";`
 - `}`

Classwork

- find all numbers from 11-20 //fora.php
- find all odd numbers from 1-10 //forb.php
- find all even numbers from 1-10 //forc.php
- find all multiple of 5 numbers from 1-100 //ford.php

Homework

- Show multiple of 7 within 100 and 200
- fore.php
- Show 1-100 for 10 numbers in one row
- forf.php

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

QUESTIONS