



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`

Classwork

- greeting.php
- Rephrase the sentence

Operands III

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

quotation

- \$jamesbond=007;
 - echo \$jamesbond;
-
- \$jamesbond="007";
 - echo \$jamesbond;



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 | |
|-----|--------|--------|-------|
| Yes | ✓ | ✓ | true |
| No | ✗ | ✗ | false |

| 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

Classwork

Secure | https://www.taobao.com/markets/cdj/index?spm=a21bo.50862.201879-item-1012-links.1.1qhY4O

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体验生活极致，发现潮流单品

Huawei 华为 P10 手机
约 3788.00 元
月销量 408

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约 118.00 元
月销量 0

游戏鼠标 专业电竞游戏鼠标

PICOOC 有品 S1pro 智能体脂秤
约 199.00 元
月销量 0

大秤脚 超白玻璃 饮食计划

ourler 啊喔乐 OURLER 1 儿童智能英语教...
约 1280.00 元
月销量 0

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约 165.00 元
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腾讯 微宝W001 智能机器人
约 399.00 元
月销量 0

球星 便携 无线充电

Ranababy JA-F1M 智能机器人
约 799.00 元
月销量 0

自动充电 原地旋转 语音对讲

MIUI 小米 5C 手机
约 1399.00 元
月销量 0

松果澎湃S1 快充 小米手机5C

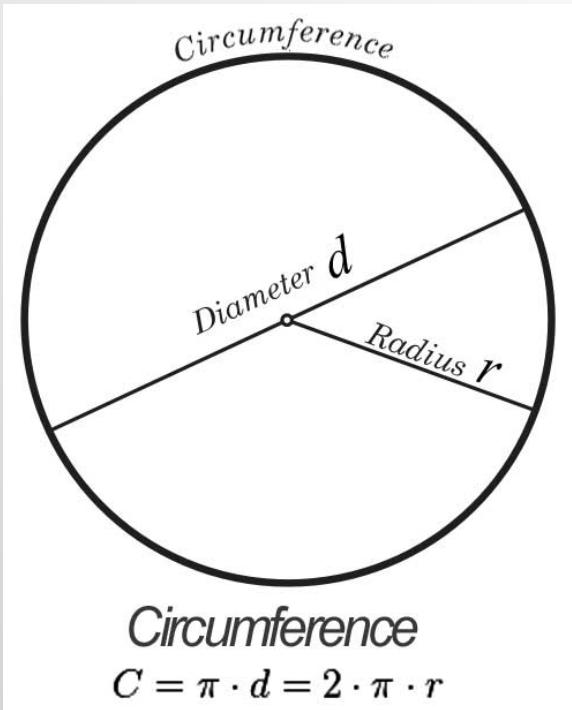
Classwork

- cart.php
- Buy 1x Huawei P10, 2x Ranababy JA-F1M, 3x utalife Eo2 watch
- What is the total price?

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

Circumference



- $C = 2\pi r$
- $A = \pi r^2$
- $\pi = 3.1415926535897932384626$

Constants

- Value that cannot be changed after setup
- 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

\$name1

\$name2

\$name3

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

Student data

| student number | name | marks |
|----------------|-------|-------|
| 1 | dave | 90 |
| 2 | john | 50 |
| 3 | mary | 66 |
| 4 | sue | 72 |
| 5 | ada | 55 |
| 6 | jack | 97 |
| 7 | jay | 82 |
| 8 | leo | 88 |
| 9 | ben | 62 |
| 10 | cindy | 100 |

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;
- If loading for over 5 seconds, Browser -> 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