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Pemrograman Web 2

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6. PHP Function

PHP Function

- ## Define By PHP System
  - PHP includes over 700 built-in functions, including those for…
    - Web-server/platform specific
    - Database & Network
    - XML
    - Images & PDF
    - Filesystem
    - Strings, Math, Mail
    - Dates
  - Some functions require certain PHP libraries to be included at compilation.
  - PHP Manual includes 187-part function reference.
  - https://www.php.net/manual/en/indexes.functions.php

- ## Define By User (Programmer)

String Function

- strip_tags(*$string*)
  - removes HTML tags
- strlen(*$string*)
  - gets the length of a string
- strstr(*$haystack, $needle*)
  - case-sensitive substring search
- stristr(*$haystack $needle*)
  - case-insensitive substring search
- strtok(*$string, $delimiter*)
  - tokenizes a string
- substr(*$string, $start, $length*)
  - gets part of string
- trim(*$string*)
  - removes whitespace from beginning and end of string
- number_format($arg1, $arg2, $arg3, $arg4);

Math Function

- abs
  - absolute value
- ceil
  - rounds a float up. Ex. ceil(4.2) => 5
- floor
  - Rounds a float down. Ex. floor(4.2) => 4
- decbin; dechex
  - decimal to binary; decimal to hexadecimal
- max, min
- rand
  - random number generator
- Sqrt
  - square root
- Log functions (log)
- Trigonometric functions (cos, sin, tan)

Date Function

- date(*$format, $[timestamp]*)
  - Creates a new date in the specified format using the given timestamp (or today's date, if no timestamp)
  - PHP manual lists the characters you use to format a date (hour, minute, day, month, year, AM/PM, etc)
  - Examples:
    - date("m.d.y") => '06.20.07'
    - date("F j, Y, g:i A") => 'June 20, 2007, 5:30 PM'
    - date("l \\t\h\e jS") => 'Wednesday the 20th'
- time( )
  - Gives you the current time as a UNIX timestamp
- strtotime(*$timeString*)
  - Parses a string into a UNIX

Checking Function

- `empty($var)` : cek apakah variable telah diset dan apakah bernilai null, "" atau 0

- `isset($var)` : cek apakah variable telah di beri nilai

```
$var = "";

if(empty($var)) // true because "" is considered empty
{...}
if(isset($var)) //true because var is set
{...}


if(empty($otherVar)) //true because $otherVar is null
{...}
if(isset($otherVar)) //false because $otherVar is not set
{...}
```

Function define By User :: void

```
function function_name (parameters) {
    function-body
}
```

Fungsi : Tanpa argumen

```
function generate_footer() {
    echo "<p>Copyright &copy; 2006 W. Jason Gilmore</p>";
}
<?php
    generate_footer();
?>
```

Function define By User :: void

Fungsi : dengan argumen

```php
function salestax($price,$tax) {
    $total = $price + ($price * $tax);
    echo "Total cost: $total";
}

salestax(15.00,.075);
<?php
    $pricetag = 15.00;
    $salestax = .075;
    salestax($pricetag, $salestax);
?>
```

Function define By User :: void

Fungsi : Dengan nilai default

```php
function salestax($price,$tax=.0575) {
    $total = $price + ($price * $tax);
    echo "Total cost: $total";
}

$price = 15.47;
salestax($price);  // argument ke 2 boleh tidak disertakan
```

Function define By User :: void

Fungsi : dengan default Value

```php
function salam($nama='Faiz')
{
  echo 'Apa kabar '.$nama;
}

salam();// Apa kabar Faiz

salam('Alissa');//Apa kabar Alissa
```

Function define By User :: void

Fungsi : Dengan Optional argument

```php
function salestax($price,$tax="") {
    $total = $price + ($price * $tax);
    echo "Total cost: $total";
}
```

```php
salestax(42.00);
```

```php
function calculate($price,$price2="",$price3="") {
    echo $price + $price2 + $price3;
}
```

```php
calculate(10,"",3);
```

Function define by User : return value

Fungsi : mengembalikan nilai berupa variable

```php
function jumlah($a , $b)
{
  return $a + $b ;
}

echo '8 + 7 = '.jumlah(8,7);// 8 + 7 = 15

$x = 20; $y=25;
$z = jumlah($x,$y);

echo "$x + $y = $z ";// 20 + 25 = 45
```

Function define by User : return value

Fungsi : mengembalikan nilai berupa variable

```php
function salestax($price,$tax=.0575) {
    $total = $price + ($price * $tax);
    return $total;
}
function salestax($price,$tax=.0575) {
    return $price + ($price * $tax);
}
<?php
    $price = 6.50;
    $total = salestax($price);
?>
```

Fungsi mengembalikan Multiple Value

Fungsi: gunakan list()

```php
<?php
    $colors = array("red","blue","green");
    list($red,$blue,$green) = $colors; // $red="red", $blue="blue", $green="green"
?>
<?php
  function retrieve_user_profile() {
    $user[] = "Jason";
    $user[] = "jason@example.com";
    $user[] = "English";
    return $user;
  }
  list($name,$email,$language) = retrieve_user_profile();
  echo "Name: $name, email: $email, preferred language: $language";
?>
```

PHP Skup Variabel

- Variabel Lokal Fungsi
- Variabel Global
- Variabel Static

Variable local Function

Variable : yang dikenal hanya dalam fungsi saja

```php
function pangkatDua($a)
{
  $a = $a * $a;
}


$a = 20;
echo 'sebelum $a='.$a;// sebelum $a=20
pangkatDua($a);
echo 'sesudah $a='.$a;// sesudah $a=20
```

Variable global

Variable : yang dikenal oleh seluruh program

```
function pangkatDua($a)
{
  global $a;
  $a = $a * $a;
}


$a = 20;
echo 'sebelum $a='.$a;// sebelum $a=20
pangkatDua($a);
echo 'sesudah $a='.$a;// sesudah $a=400
```
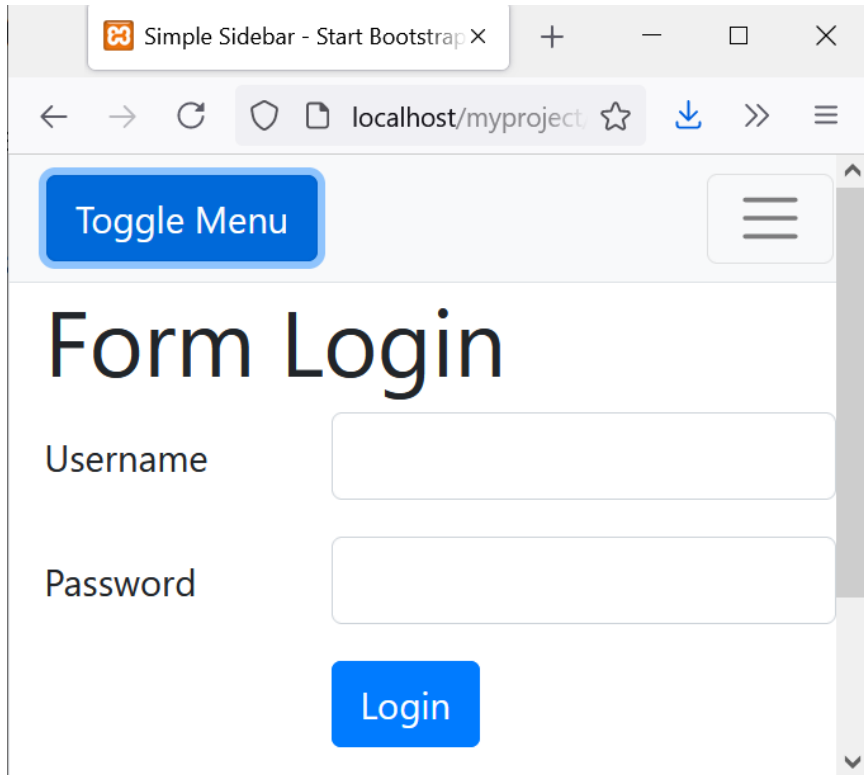
Variable Static

Variable : nilai variable disimpan dalam memori, walau fungsi sudah exit, nilai variable tetap tersimpan.

Gunakan keyword STATIC untuk definisikan variable static

```
STATIC $somevar;

function keep_track() {
    STATIC $count  = 0;
    $count++;
    print $count;
    print "<br>";
}
```

```
keep_track();        1
keep_track();        2
keep_track();        3
```

Login Form – Fungsi Validasi


```php
<?php
function otentikasi($uname,$pass){
    // user admin , password 12345
    if($uname=="admin" && $pass=="123456"){
        return true;
    }else{
        return false;
    }
}
?>
```