	<p>STMIK WIDYA CIPTA DHARMA SAMARINDA</p>	<p><b>S1 - TEKNIK INFORMATIKA</b></p>
<p>PRAKTIKUM PEMROGRAMAN WEB</p>	<p><b>DASAR PHP 2</b></p>	<p>LabSheet 02</p>
<p>SEMESTER 4</p>		<p>Dosen : 1. PITRASACHA ADYTIA, S.T., M.T. 2. WAHYUNI, S.KOM, M.KOM</p>

## I. Tujuan

1. Mahasiswa dapat memahami dan menggunakan dasar-dasar PHP

## II. Tugas

### 1. Function dan Variable Scope

Buatlah function seperti berikut :

```

1  <?php
2      $temp = "The date is ";
3      echo longdate(time());
4
5      function longdate($timestamp)
6      {
7          return $temp . date("l F jS Y", $timestamp);
8      }
9  ?>

```

- 1) Screenshoot hasil dari sintaks di atas !

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL GITLENS
PS D:\Materi\Genap 22-23\Pemrograman Web> php '.\Praktikum\Pertemuan Ke 2\FunctionAndVariableScope.php'
PHP Warning: Undefined variable $temp in D:\Materi\Genap 22-23\Pemrograman Web\Praktikum\Pertemuan Ke 2\FunctionAndVariableScope.php on line 8
Warning: Undefined variable $temp in D:\Materi\Genap 22-23\Pemrograman Web\Praktikum\Pertemuan Ke 2\FunctionAndVariableScope.php on line 8
Saturday April 15th 2023
PS D:\Materi\Genap 22-23\Pemrograman Web> S
```

- 2) Pada hasil script di atas akan menghasilkan warning , kenapa muncul warning ?  
**Karena function hanya meminta satu variable yaitu \$timestamp**
- 3) Perbaiki script di atas agar tidak menghasilkan warning, screenshot kode baru perbaikan

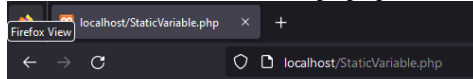
```
Praktikum > Pertemuan Ke 2 > FunctionAndVariableScope.php > ...
1  <?php
2  $temp = "The Date is ";
3
4  echo longdate(time(), $temp);
5
6  function longdate($timestamp, $temp)
7  {
8      return $temp . date("l F jS Y", $timestamp);
9  }
10
```

## 2. Static Variable

Ketiklah script php di bawah ini :

```
1  <?php
2
3      echo test();
4      echo "<br><br>";
5      echo test();
6
7      function test()
8      {
9          static $count = 0;
10         echo $count;
11         $count++;
12     }
13  ?>
```

- 1) Screenshoot hasil dari script php di atas !



0

1

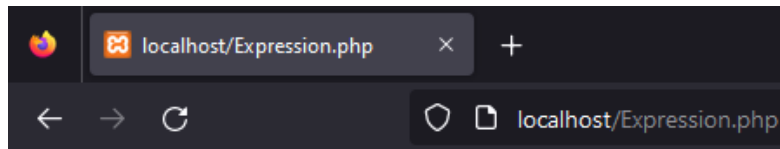
- 2) Coba modifikasi line number 9, hilangkan / hapus static di line 9 sisakan \$count=0; jalankan ulang php nya, apakah ada perbedaan hasil ? mengapa ?

## 3. Expression. Buatlah script php spt di bawah dan jalankan, screenshoot hasilnya

```

1 <?php
2     echo "a: [" . (20 > 9) . ">"]<br>";
3     echo "b: [" . (5 == 6) . ">"]<br>";
4     echo "c: [" . (1 == 0) . ">"]<br>";
5     echo "d: [" . (1 == 1) . ">"]<br>";
6 ?>

```



a: [1]  
b: []  
c: []  
d: [1]

#### 4. Relational Operator

##### 1) Equality.

```

1 <?php
2     $a = "1000";
3     $b = "+1000";
4
5     if ($a == $b) echo "1";
6     if ($a === $b) echo "2";
7 ?>

```

1) Screenshoot hasil script di atas !

# 1. Equality

1

- 2) Jelaskan perbedaan **operator equality** pada line 5 dan 6 !  
**Pada line 5 operator tersebut hanya mengecek nilai .**  
**Sedangkan pada operator line 6 dia mengecek nilai dan value.**

2) Comparasion

```
1 <?php
2     $a = 2; $b = 3;
3     if ($a > $b) echo "$a is greater than $b<br>";
4     if ($a < $b) echo "$a is less than $b<br>";
5     if ($a >= $b) echo "$a is greater than or equal to $b<br>";
6     if ($a <= $b) echo "$a is less than or equal to $b<br>";
7 ?>
```

- 1) Screenshoot hasil script di atas!

## 2. Comparasion

2 is less than 3

2 is less than or equal to 3

### 3) Logical

```
1  <?php
2      $a = 1; $b = 0;
3
4      echo ($a AND $b) . "<br>";
5      echo ($a or $b) . "<br>";
6      echo ($a XOR $b) . "<br>";
7      echo !$a          . "<br>";
8  ?>
```

1) Screenshoot hasil script di atas!

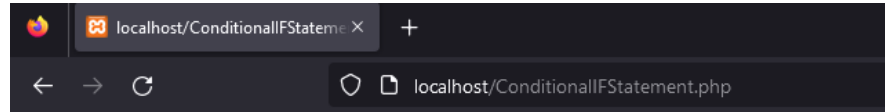
## 3. Logical

1  
1

### 5. Conditional IF statement

```
1  <?php
2      $page = "test";
3
4      if      ($page == "Home") echo "You selected Home";
5      elseif ($page == "About") echo "You selected About";
6      elseif ($page == "News")  echo "You selected News";
7      elseif ($page == "Login") echo "You selected Login";
8      elseif ($page == "Links") echo "You selected Links";
9      else          echo "Unrecognized selection";
10  ?>
```

1) Screenshoot hasil script di atas!

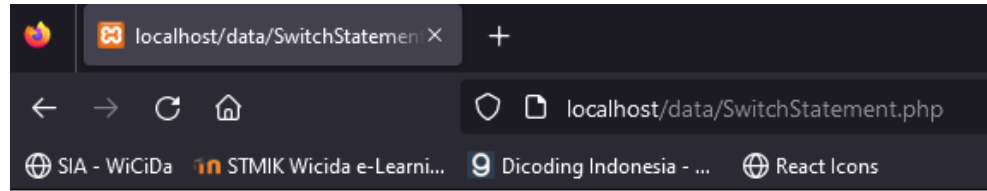


# Unrecongized selection

## 6. Switch Statement

```
1  <?php
2  switch ($page)
3  {
4      case "Home":
5          echo "You selected Home";
6          break;
7      case "About":
8          echo "You selected About";
9          break;
10     case "News":
11         echo "You selected News";
12         break;
13     case "Login":
14         echo "You selected Login";
15         break;
16     case "Links":
17         echo "You selected Links";
18         break;
19     default:
20         echo "Unrecognized selection";
21         break;
22 }
23 ?>
```

1) Screenshoot hasil script di atas !

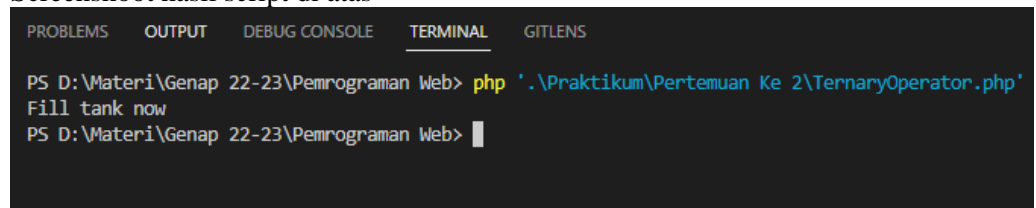


- 2) Apakah ada perbedaan dengan yang menggunakan if statement pada no 5  
**Tidak.**
- 3) Lebih efisien mana menggunakan if atau switch untuk kasus di atas ?  
**Switch.**

#### 7. ? Operator

```
1 <?php
2 echo $fuel <= 1 ? "Fill tank now" : "There's enough fuel";
3 ?>
```

- 1) Screenshoot hasil script di atas



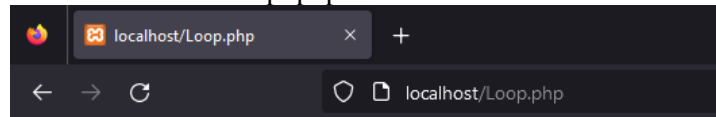
- 2) Apa fungsi operator ? pada script di atas  
**Kondisi yang ditetapkan.**



## 8. Loop

```
1 <?php
2     $count = 1;
3
4     while ($count <= 12)
5     {
6         echo "$count times 12 is " . $count * 12 . "<br>";
7         ++$count;
8     }
9 ?>
```

1) Screenshoot hasil script php di atas !



1 times 12 is 12  
2 times 12 is 24  
3 times 12 is 36  
4 times 12 is 48  
5 times 12 is 60  
6 times 12 is 72  
7 times 12 is 84  
8 times 12 is 96  
9 times 12 is 108  
10 times 12 is 120  
11 times 12 is 132  
12 times 12 is 144

2) Ubah perulangan script di atas menggunakan format **do while loop**

```

Praktikum > Pertemuan Ke 2 > Loop.php > ...
2  $count = 1;
3
4  // while ($count <= 12) {
5  //     echo "count times 12 is " . $count * 12 . "<br>";
6  //     $count++;
7  // }
8
9
10 do {
11     echo "count times 12 is " . $count * 12 . "<br>";
12     $count++;
13 } while ($count <= 12);
14

```

### 3) Apa perbedaan while loop dengan do while loop

Perulangan while akan melakukan perulangan Ketika kondisi terpenuhi

Sedangkan do/while akan melakukan perulangan terlebih dahulu, kemudian memeriksa kondisi syaratnya.

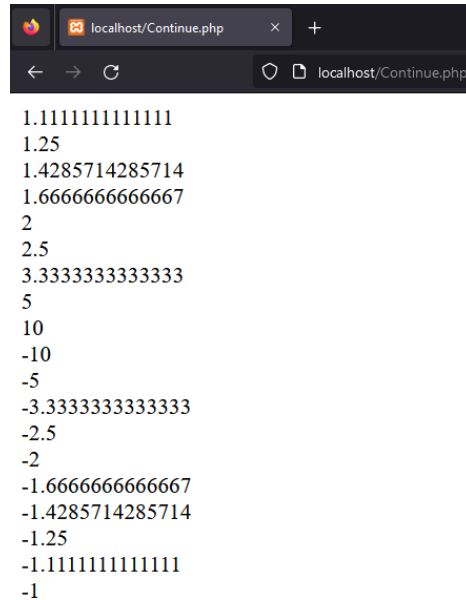
## 9. Continue

```

1  <?php
2  $j = 10;
3
4  while ($j > -10)
5  {
6      $j--;
7
8      if ($j == 0) continue;
9
10     echo (10 / $j) . "<br>";
11 }
12 ?>

```

1) Screenshoot hasil script php di atas !



```
1.11111111111111
1.25
1.4285714285714
1.66666666666667
2
2.5
3.33333333333333
5
10
-10
-5
-3.33333333333333
-2.5
-2
-1.66666666666667
-1.4285714285714
-1.25
-1.11111111111111
-1
```

s

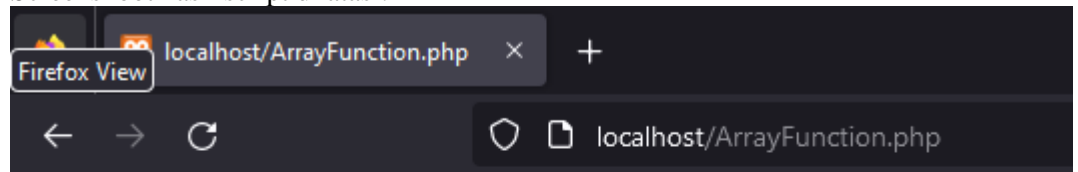
- 2) Apa fungsi continue di line 8  
**Menghentikan perulangan untuk melakukan pengecekan terhadap kondisi.**

## 10. Array Function

### 1) Explode

```
1 <?php
2 $temp = explode('***', "A***sentence***with***asterisks");
3 print_r($temp);
4 ?>
```

- a) Screenshoot hasil script di atas !



### 1. Explode

**Array ( [0] => A [1] => sentence [2] => with [3] => asterisks )**

- b) Jelaskan fungsi dari function explode  
**Untuk memecah string pada array.**

## 2) Compact

```
1 <?php
2 $j      = 23;
3 $temp   = "Hello";
4 $address = "1 Old Street";
5 $age    = 61;
6
7 print_r(compact(explode(' ', 'j temp address age')));
8 ?>
```

a) Screenshoot hasil script di atas !

## 2. Compact

**Array ( [j] => 23 [temp] => Hello [address] => 1 Old Street [age] => 61 )**

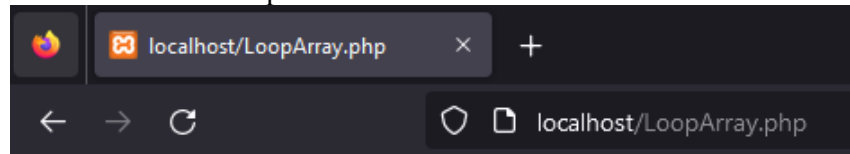
b) Jelaskan fungsi dari function compact  
**Membuat sebuah array.**

## 11. Loop array

### 1) List

```
4 lines (4 sloc) | 69 Bytes
1 <?php
2 list($a, $b) = array('Alice', 'Bob');
3 echo "a=$a b=$b";
4 ?>
```

a) Screenshoot hasil script di atas !



### 1. List

**a = Alice b = Bob**

b) Apa fungsi dari function list di atas ?  
**Menetapkan nilai pada variable.**

## 2) While

```
1 <?php
2     $paper = array('copier' => "Copier & Multipurpose",
3                     'inkjet' => "Inkjet Printer",
4                     'laser' => "Laser Printer",
5                     'photo' => "Photographic Paper");
6
7     foreach($paper as $item => $description)
8         echo "$item: $description<br>";
9 ?>
```

18 lines (16 sloc) | 561 Bytes

```
1 <?php
2     $paper = array('copier' => "Copier & Multipurpose",
3                     'inkjet' => "Inkjet Printer",
4                     'laser' => "Laser Printer",
5                     'photo' => "Photographic Paper");
6
7     while (list($item, $description) = myEach($paper))
8         echo "$item: $description<br>";
9
10    function myEach(&$array) // Replacement for the deprecated each function
11    {
12        $key    = key($array);
13        $result = ($key === null) ? false :
14                    [$key, current($array), 'key', 'value' => current($array)];
15        next($array);
16        return $result;
17    }
18 ?>
```

a) Screenshot hasil script di atas !

## 2. While

**copier: Copier & Multipurpose**  
**inkjet: Inkjet Printer**  
**laser: Laser Printer**  
**photo: Photographic Paper**

b) Untuk apa fungsi myEach di atas ?  
**Membuat sebuah element array.**

### 3) Foreach

- a) Screenshoot hasil script di atas !

## 3. ForEach

**copier: Copier & Multipurpose**  
**inkjet: Inkjet Printer**  
**laser: Laser Printer**  
**photo: Photographic Paper**

### 4) Multidimensional Array

```
1  <?php
2  $products = array(
3
4      'paper' => array(
5
6          'copier' => "Copier & Multipurpose",
7          'inkjet' => "Inkjet Printer",
8          'laser'  => "Laser Printer",
9          'photo'  => "Photographic Paper"),
10
11      'pens' => array(
12
13          'ball'   => "Ball Point",
14          'hilite' => "Highlighters",
15          'marker' => "Markers"),
16
17      'misc' => array(
18
19          'tape'   => "Sticky Tape",
20          'glue'   => "Adhesives",
21          'clips'  => "Paperclips"
22      )
23  );
24
25  echo "<pre>";
26
27  foreach($products as $section => $items)
28      foreach($items as $key => $value)
29          echo "$section:\t$key\t($value)<br>";
30
31  echo "</pre>";
32  ?>
```

- a) Screenshoot hasil script di atas

#### 4. Multidimensional Array

```
paper: copier (Copier & Multipurpose)
paper: inkjet (Inkjet Printer)
paper: laser (Laser Printer)
paper: photo (Photographic Paper)
pens: ball (Ball Point)
pens: hilite (Highlighters)
pens: marker (Markers)
misc: tape (Sticky Tape)
misc: glue (Adhesives)
misc: clips (Paperclips)
```

- 5) Diketahui variable array sebagai berikut :

```
$chessboard = array(
    array('r', 'n', 'b', 'q', 'k', 'b', 'n', 'r'),
    array('p', 'p', 'p', 'p', 'p', 'p', 'p', 'p'),
    array(' ', ' ', ' ', ' ', ' ', ' ', ' ', ' '),
    array(' ', ' ', ' ', ' ', ' ', ' ', ' ', ' '),
    array(' ', ' ', ' ', ' ', ' ', ' ', ' ', ' '),
    array(' ', ' ', ' ', ' ', ' ', ' ', ' ', ' '),
    array('P', 'P', 'P', 'P', 'P', 'P', 'P', 'P'),
    array('R', 'N', 'B', 'Q', 'K', 'B', 'N', 'R')
);
```

Buatlah script php hingga ouput yang dihasilkan spt gbr di bawah :

```
<?php
$chessboard = array(
    array('r', 'n', 'b', 'q', 'k', 'b', 'n', 'r'),
    array('p', 'p', 'p', 'p', 'p', 'p', 'p', 'p'),
    array(' ', ' ', ' ', ' ', ' ', ' ', ' ', ' '),
    array(' ', ' ', ' ', ' ', ' ', ' ', ' ', ' '),
    array(' ', ' ', ' ', ' ', ' ', ' ', ' ', ' '),
    array(' ', ' ', ' ', ' ', ' ', ' ', ' ', ' '),
    array('P', 'P', 'P', 'P', 'P', 'P', 'P', 'P'),
    array('R', 'N', 'B', 'Q', 'K', 'B', 'N', 'R'),
);

foreach ($chessboard as $row => $items) {
    foreach ($items as $col => $value) {
        echo "$value ";
    }
    echo "<br>";
}
?>
```

```
r n b q k b n r
p p p p p p p p
```

```
P P P P P P P P
R N B Q K B N R
```