

# Pengembangan Aplikasi Web

## Pertemuan Ke-5 (PHP: Lanjut 3)

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ResearchGate: [Noor-Ifada](#)

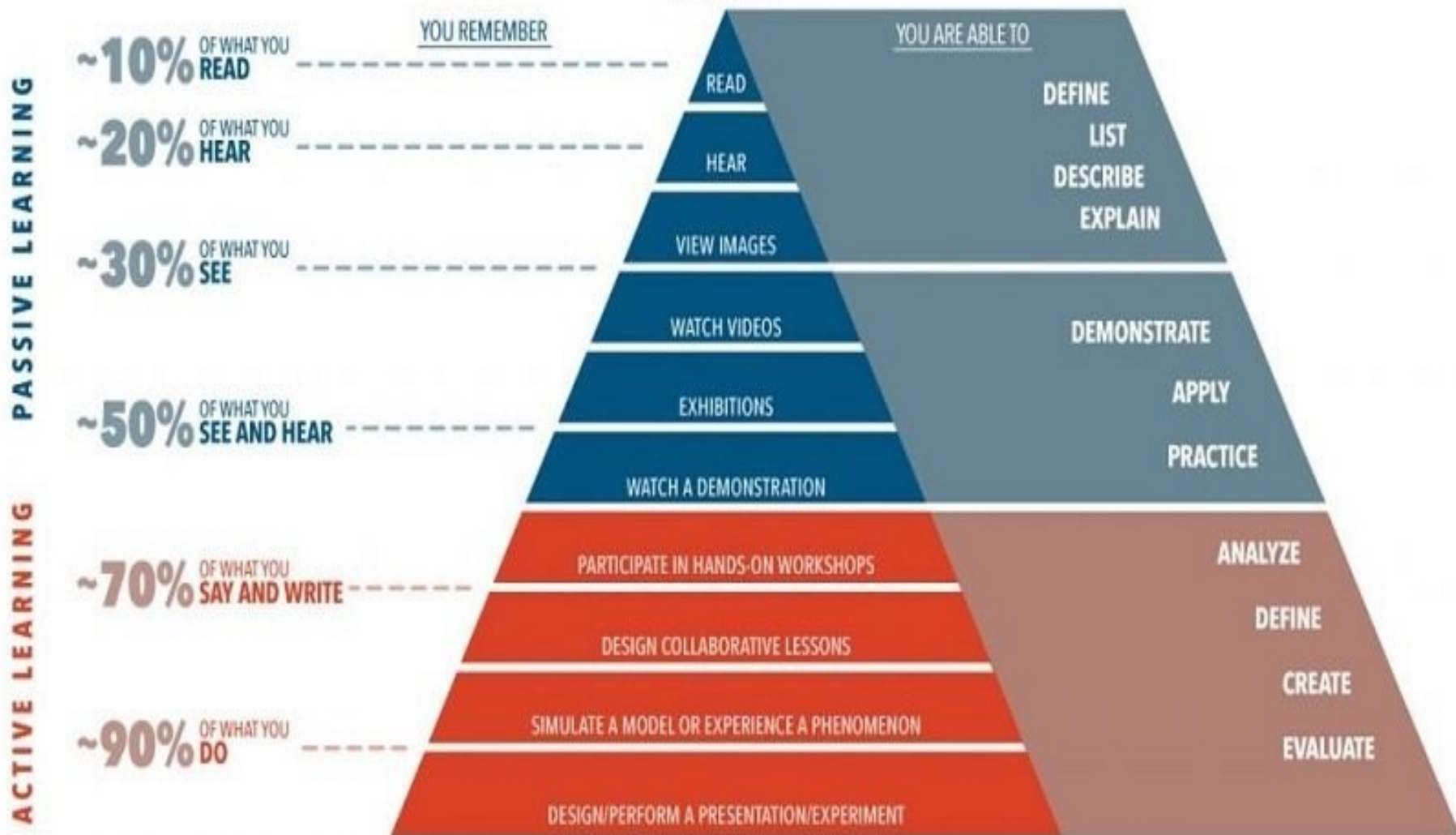
Repository: [Trunojoyoan](#)

Semester Gasal 2023/2024

S1 Teknik Informatika – Universitas Trunojoyo Madura (UTM)

# CONE OF EXPERIENCE

EDGAR DALE



<https://elearningindustry.com/>

# SOFT SKILLS FOR STUDENTS

## 6 SKILLS TO HELP YOU SUCCEED



**1 Problem Solving**

Do you see problems as interesting opportunities? Problem solvers anticipate potential stumbling blocks and act to prevent them or mitigate their effects.

**TIP:** You don't always need to start by trying to solve the problem. First, aim to understand the root of the problem.



**2 Creativity**

Are you able to think outside of the box even when you're not asked to? Everyone has creative abilities. Creative thinking skills help you to look at problems and situations from a fresh perspective.



**3 Communication**

Are you an effective communicator and active listener? Communication skills will help you understand others and be better understood in return. This can help make each interaction you have in both your work and social life a more positive experience.




**4 Time Management**

Are you an organized person who meets deadlines? Good time management skills enable you to do more in less time, helping you reduce stress and maintain a better work-life balance.

**TIP:** Prioritize your tasks and delegate a time limit to how long you spend on each one.



**5 Stress Management**

Can you identify and tackle your stress triggers? Being able to manage stress allows you to break the hold it can have on your life. This will make you happier, healthier, and more productive in return.

**TIP:** Set limits and learn to say no to requests that would create excessive stress in your life.



**6 Teamwork**

Are you a team player who collaborates well with others? Teamwork requires leadership and goal orientation. Whether in school or a job, the better you work within a team, the better your work will be!

**TIP:** Always clarify roles, responsibilities and accountability with your team members.



**END**



You won't always be a priority to others,  
and that's why you have to be a priority to yourself.


Learn to respect yourself, take care of yourself,  
and become your own support system.

Your needs matter. Start meeting them. Don't wait  
for others to choose you. Choose yourself.

*Jazz Zo Marcellus*

# Tabu Bagi Mahasiswa Teknik Informatika

- ❖ Tidak dapat beradaptasi dengan (perkembangan) teknologi
- ❖ Tidak dapat membaca atau memahami instruksi
- ❖ Tidak dapat membuat program



**LEARNING IS NEVER  
DONE WITHOUT  
ERRORS AND DEFEAT**

VLADIMIR LENIN

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PICTUREQUOTES

# Sub Pokok Bahasan

- Fungsi
- Variabel dalam Fungsi
- Include
- PBO

# Fungsi (*Function*): User Defined

<http://php.net/manual/en/functions.user-defined.php>

```
function namaFungsi () {  
    // operasi yang akan dilakukan  
}
```

```
<?php  
function addNumber($value1, $value2)  
{  
    $total = $value1 + $value2;  
    return $total;  
}  
  
echo "2 + 1 = ". addNumber(1,2);  
?>
```

- **NOTE:**
  - Nama fungsi adalah *case-insensitive*
  - Nama variabel adalah *case-sensitive*

# Challenge #1

Buatlah **fungsi** untuk mencetak teks dengan penomoran terurut ke bawah seperti berikut:

“Iteration number 10”

“Iteration number 9”

“Iteration number 8”

“Iteration number 7”

“Iteration number 6”

“Iteration number 5”

“Iteration number 4”

“Iteration number 3”

“Iteration number 2”

“Iteration number 1”



# Challenge #2

Buatlah **fungsi** untuk mencetak teks dengan penomoran terurut ke atas seperti berikut:

“Iteration number 1”

“Iteration number 4”

“Iteration number 7”

“Iteration number 10”

“Iteration number 13”

“Iteration number 16”

“Iteration number 19”

“Iteration number 22”

“Iteration number 25”

“Iteration number 28”

# Challenge #3

Buatlah **fungsi** untuk mencetak teks dengan penomoran terurut ke bawah seperti berikut::

“Iteration number 28”

“Iteration number 25”

“Iteration number 22”

“Iteration number 19”

“Iteration number 16”

“Iteration number 13”

“Iteration number 10”

“Iteration number 7”

“Iteration number 4”

“Iteration number 1”

# Fungsi (*Function*): *Built-in*

- **String** (<http://php.net/manual/en/ref.strings.php>)  
Contoh: `strlen()`, `substr()`, `trim()`, `strstr()`
- **Array** (<http://php.net/manual/en/book.array.php>)  
Contoh: `count()`, `sort()`, `asort()`, `ksort()`,  
`array_key_exists()`, `array_push()`, `array_pop()`
- **Date/Time**  
(<http://php.net/manual/en/book.datetime.php>)  
Contoh: `checkdate()`, `date_add()`, `date_diff()`,  
`strtotime()`, `date()`, `getdate()`, `mktime()`, `time()`
- **Math** (<http://php.net/manual/en/book.math.php>)  
Contoh: `abs()`, `ceil()`, `floor()`, `log()`, `min()`,  
`max()`, `pow()`, `round()`, `rand()`, `sqrt()`, `sin()`,  
`cos()`, `tan()`

# Variabel Global Versus Lokal

<http://php.net/manual/en/language.variables.scope.php>

```
2
3     $x = 42;
4     $a = 5;
5     $y = foo($a+1, $x);
6
7     echo "$x, $y, $a";
8
9     function foo($x, $y)
10    {
11        while ($x < $y)
12            $x = $x * 2;
13        return $x;
14    }
```

Global variables:

\$x: 42  
\$y: 48  
\$a: 5

Local variables:

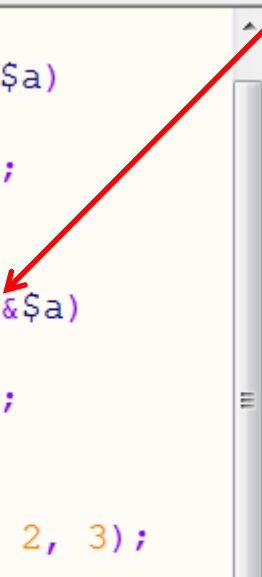
\$x: 48  
\$y: 42

- Parameter dan variabel lain yang digunakan di dalam fungsi merupakan variabel local dari fungsi tersebut
  - Bahkan jika namanya sama dengan nama variabel global
- Secara *default*, argumen fungsi diaplikasikan secara “*pass-by-value*”

# Pass-by-Value VS Pass-by-Reference


<http://php.net/manual/en/language.references.pass.php>

```
2
3     function foo($a)
4     {
5         $a[1] = 0;
6     }
7
8     function bar(&$a)
9     {
10        $a[1] = 0;
11    }
12
13    $x = array(1, 2, 3);
14
15    foo($x);
16    echo $x[1];
17
18    bar($x);
19    echo $x[1];
20
```



Local variables:  
\$a: array(1, 0, 3)

Local variables:  
\$a:



Global variables:  
\$x: array(1, 0, 3)

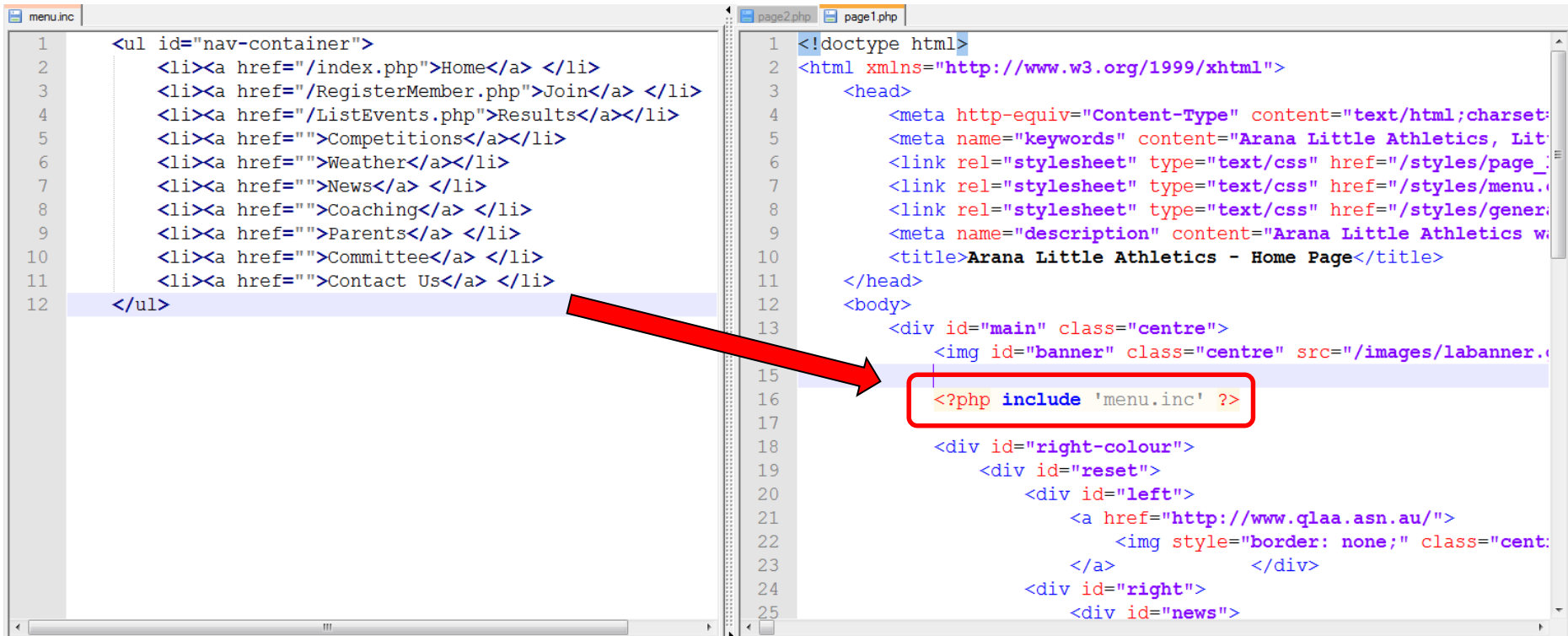
# Penggunaan *Include*

<https://www.php.net/manual/en/function.include.php>

```
page1.php
1 <!doctype html>
2 <html xmlns="http://www.w3.org/1999/xhtml">
3 <head>
4 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
5 <meta name="keywords" content="Arana Little Athletics, Little Athletics">
6 <link rel="stylesheet" type="text/css" href="/styles/page_layout.css" />
7 <link rel="stylesheet" type="text/css" href="/styles/menu.css" />
8 <link rel="stylesheet" type="text/css" href="/styles/general.css" />
9 <meta name="description" content="Arana Little Athletics was established in 1974" />
10 <title>Arana Little Athletics - Home Page</title>
11 </head>
12 <body>
13 <div id="main" class="centre">
14 
15 <ul id="nav-container">
16 <li><a href="/index.php">Home</a> </li>
17 <li><a href="/RegisterMember.php">Join</a> </li>
18 <li><a href="/ListEvents.php">Results</a> </li>
19 <li><a href="/Competitions">Competitions</a> </li>
20 <li><a href="/Weather">Weather</a> </li>
21 <li><a href="/News">News</a> </li>
22 <li><a href="/Coaching">Coaching</a> </li>
23 <li><a href="/Parents">Parents</a> </li>
24 <li><a href="/Committee">Committee</a> </li>
25 <li><a href="/Contact Us">Contact Us</a> </li>
26 </ul>
27 <div id="right-colour">
28 <div id="reset">
29 <div id="left">
30 <a href="http://www.qlaa.asn.au/">
31 
32 </a>
33 <div id="right">
34 <div id="news">
35 <div id="news-heading">
36 Latest News
37 </div>
38 <div id="news-body">
39 <p>
40 Nominations close for Junior Carnival/Senior Carnival</p>
41 </div>
42 </div>
43 </div>
44 </div>
45 </body>
46 </html>
```

```
page2.php
1 <!doctype html>
2 <html xmlns="http://www.w3.org/1999/xhtml">
3 <head>
4 <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
5 <meta name="keywords" content="Arana Little Athletics, Little Athletics">
6 <link rel="stylesheet" type="text/css" href="/styles/page_layout.css" />
7 <link rel="stylesheet" type="text/css" href="/styles/menu.css" />
8 <link rel="stylesheet" type="text/css" href="/styles/general.css" />
9 <meta name="description" content="Register a new athlete" />
10 <title>Arana Little Athletics - Registration Page</title>
11 <link rel="stylesheet" type="text/css" href="/styles/forms.css" />
12 <script src="/scripts/register.js" type="text/javascript">
13 </script>
14 </head>
15 <body>
16 <div id="main" class="centre">
17 
18 <ul id="nav-container">
19 <li><a href="/index.php">Home</a> </li>
20 <li><a href="/RegisterMember.php">Join</a> </li>
21 <li><a href="/ListEvents.php">Results</a> </li>
22 <li><a href="/Competitions">Competitions</a> </li>
23 <li><a href="/Weather">Weather</a> </li>
24 <li><a href="/News">News</a> </li>
25 <li><a href="/Coaching">Coaching</a> </li>
26 <li><a href="/Parents">Parents</a> </li>
27 <li><a href="/Committee">Committee</a> </li>
28 <li><a href="/Contact Us">Contact Us</a> </li>
29 </ul>
30 <div id="right-colour">
31 <div id="reset">
32 <div id="left">
33 <a href="http://www.qlaa.asn.au/">
34 
35 </a>
36 </div>
37 <div id="right">
38 <h1>Registration Form</h1>?<form action="RegisterMember.php" method="post">
39 <fieldset>
40 <legend>Athlete Information</legend>
41 <div id="personal">
42 <div id="first-name">
43 <input type="text" value="First Name" />
44 </div>
45 <div id="last-name">
46 <input type="text" value="Last Name" />
47 </div>
48 <div id="age">
49 <input type="text" value="Age" />
50 </div>
51 <div id="gender">
52 <input type="radio" value="Male" /> Male
53 <input type="radio" value="Female" /> Female
54 </div>
55 <div id="email">
56 <input type="text" value="Email" />
57 </div>
58 <div id="password">
59 <input type="password" value="Password" />
60 </div>
61 <div id="confirm-password">
62 <input type="password" value="Confirm Password" />
63 </div>
64 <div id="submit">
65 <input type="submit" value="Register" />
66 </div>
67 </div>
68 </div>
69 </div>
70 </div>
71 </body>
72 </html>
```

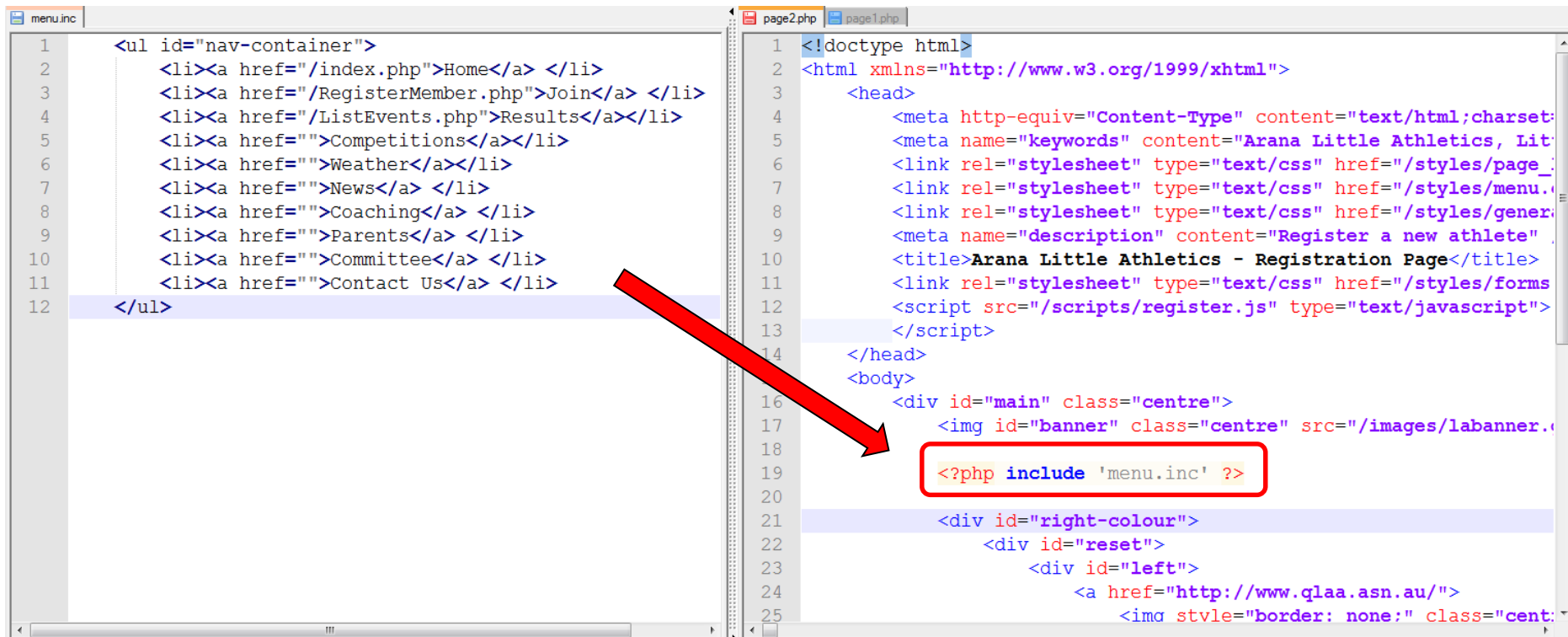
# Penggunaan *Include* [2]



```
1 <ul id="nav-container">
2   <li><a href="/index.php">Home</a> </li>
3   <li><a href="/RegisterMember.php">Join</a> </li>
4   <li><a href="/ListEvents.php">Results</a></li>
5   <li><a href="">Competitions</a></li>
6   <li><a href="">Weather</a></li>
7   <li><a href="">News</a> </li>
8   <li><a href="">Coaching</a> </li>
9   <li><a href="">Parents</a> </li>
10  <li><a href="">Committee</a> </li>
11  <li><a href="">Contact Us</a> </li>
12 </ul>
```

```
1 <!doctype html>
2 <html xmlns="http://www.w3.org/1999/xhtml">
3   <head>
4     <meta http-equiv="Content-Type" content="text/html; charset=
5     <meta name="keywords" content="Arana Little Athletics, Lit
6     <link rel="stylesheet" type="text/css" href="/styles/page_
7     <link rel="stylesheet" type="text/css" href="/styles/menu.
8     <link rel="stylesheet" type="text/css" href="/styles/gener
9     <meta name="description" content="Arana Little Athletics w
10    <title>Arana Little Athletics - Home Page</title>
11  </head>
12  <body>
13    <div id="main" class="centre">
14      
18      <div id="reset">
19        <div id="left">
20          <a href="http://www.qlaa.asn.au/">
21            <img style="border: none;" class="cent
22          </a>
23        </div>
24        <div id="right">
25          <div id="news">
```

# Penggunaan *Include* [3]



```
menu.inc
1 <ul id="nav-container">
2   <li><a href="/index.php">Home</a> </li>
3   <li><a href="/RegisterMember.php">Join</a> </li>
4   <li><a href="/ListEvents.php">Results</a></li>
5   <li><a href="">Competitions</a></li>
6   <li><a href="">Weather</a></li>
7   <li><a href="">News</a> </li>
8   <li><a href="">Coaching</a> </li>
9   <li><a href="">Parents</a> </li>
10  <li><a href="">Committee</a> </li>
11  <li><a href="">Contact Us</a> </li>
12 </ul>
```

```
page2.php page1.php
1 <!doctype html>
2 <html xmlns="http://www.w3.org/1999/xhtml">
3   <head>
4     <meta http-equiv="Content-Type" content="text/html; charset=
5     <meta name="keywords" content="Arana Little Athletics, Lit
6     <link rel="stylesheet" type="text/css" href="/styles/page_
7     <link rel="stylesheet" type="text/css" href="/styles/menu.
8     <link rel="stylesheet" type="text/css" href="/styles/genera
9     <meta name="description" content="Register a new athlete"
10    <title>Arana Little Athletics - Registration Page</title>
11    <link rel="stylesheet" type="text/css" href="/styles/forms
12    <script src="/scripts/register.js" type="text/javascript">
13  </script>
14  </head>
15  <body>
16    <div id="main" class="centre">
17      
19      <div id="reset">
20        <div id="left">
21          <a href="http://www.qlaa.asn.au/">
22            <img stvle="border: none;" class="cent
23      </div>
24    </div>
25  </body>
```



# Penggunaan *Include* [4]

- Cek penggunaan dari:
  - `include_once`  
(<https://www.php.net/manual/en/function.include-once.php>)
  - `require`  
(<https://www.php.net/manual/en/function.require.php>)
  - `require_once`  
(<https://www.php.net/manual/en/function.require-once.php>)

# Challenge #4

Buatlah **Kalender Bulan Ini** seperti gambar berikut dengan menggunakan **fungsi** :

September 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				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	

@University of Trunojoyo Madura

*Hint: Dokumen Workshop Pertemuan #5*

*Note: Tampilan gambar di atas dihasilkan ketika program dieksekusi pada tanggal 17 September 2022*

# Pemrograman Berbasis Obyek

<http://php.net/manual/en/language.oop5.php>

- Pemrograman berbasis obyek di dalam PHP:
  - Classes
  - Methods
  - Fields
- **NOTE:** Fitur ini tidak dibahas di dalam perkuliahan Pengembangan Aplikasi *Web*

# Video Perkuliahan

- Penjelasan materi kuliah dapat dilihat via YouTube (*recording* Semester Gasal 2020/2021): <https://youtu.be/rj0IwSoiPNA> mulai dari *timestamp* 39:16
- *Note: Kerjakan Challenge(s) berdasarkan slide Semester Gasal 2023/2024 (bukan berdasarkan slide yang ditampilkan dalam recording Semester Gasal 2020/2021)*



there is  
**ALWAYS**  
something to  
**BE GRATEFUL**  
for



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**SURROUND  
YOURSELF  
WITH POSITIVE  
PEOPLE WHO  
ARE GOING TO  
PUSH YOU  
TOWARD  
GREATNESS.**

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