



**PHP**

**PERTEMUAN 5  
BY FAERUL SALAMUN**

---

# REVIEW 4

- Mempelajari Bootstrap dan studi kasus membuat Website Gallery

# NEXT

- ▶ PHP

# PHP

# PHP

---

- PHP merupakan salah satu bahasa pemrograman server-side, maka script dari PHP nantinya akan diproses di server.

# WHY PHP ?

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- Easy to Get Started
- Community
- Library
- Powerful
- Free



# INSTALASI

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- › Download XAMPP pada link <https://www.apachefriends.org/download.html>
- › Pilih sesuai OS yang digunakan dan pilih version 8.1.4

 XAMPP for **Windows** 7.4.28, 8.0.17 & 8.1.4

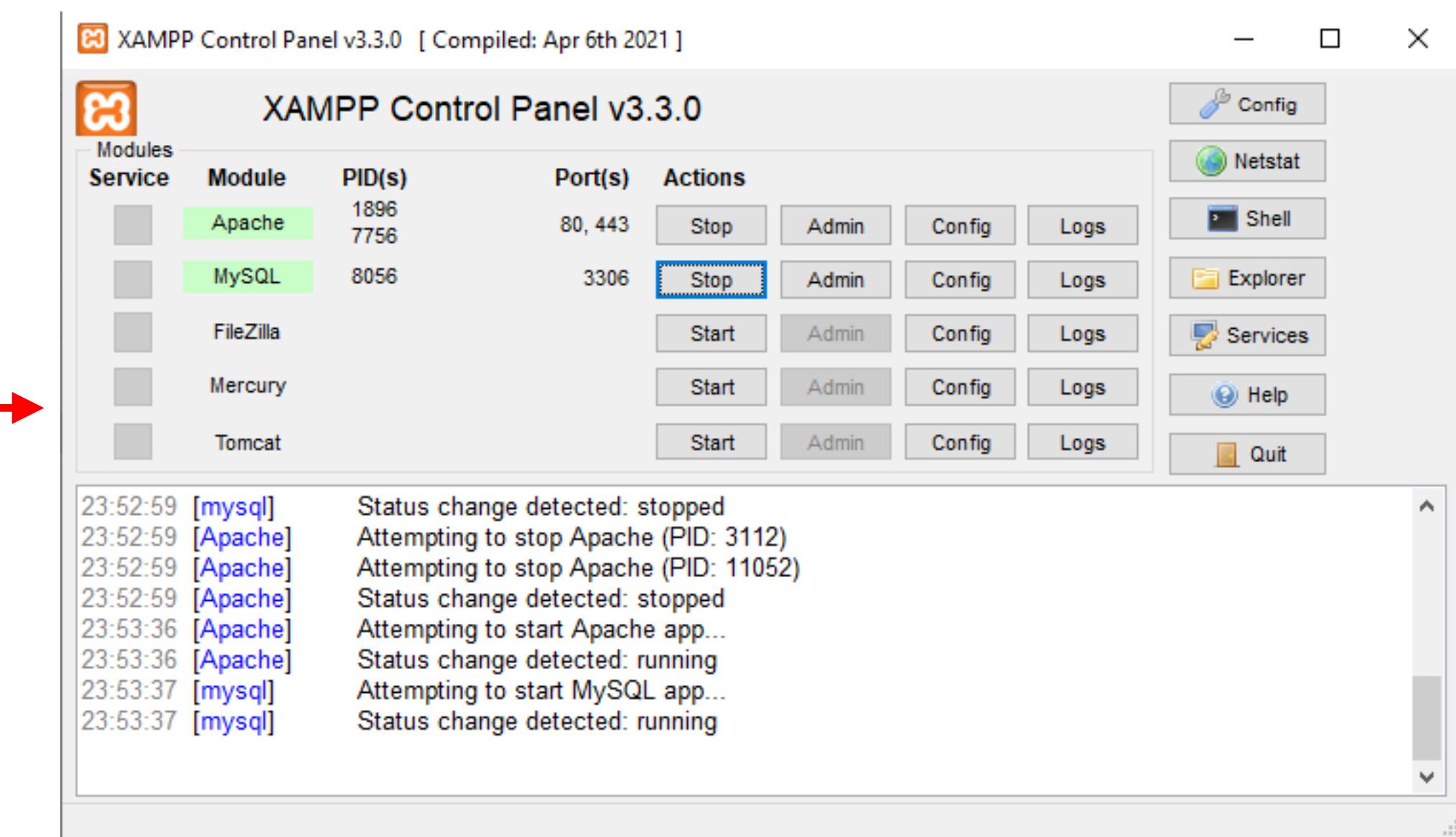
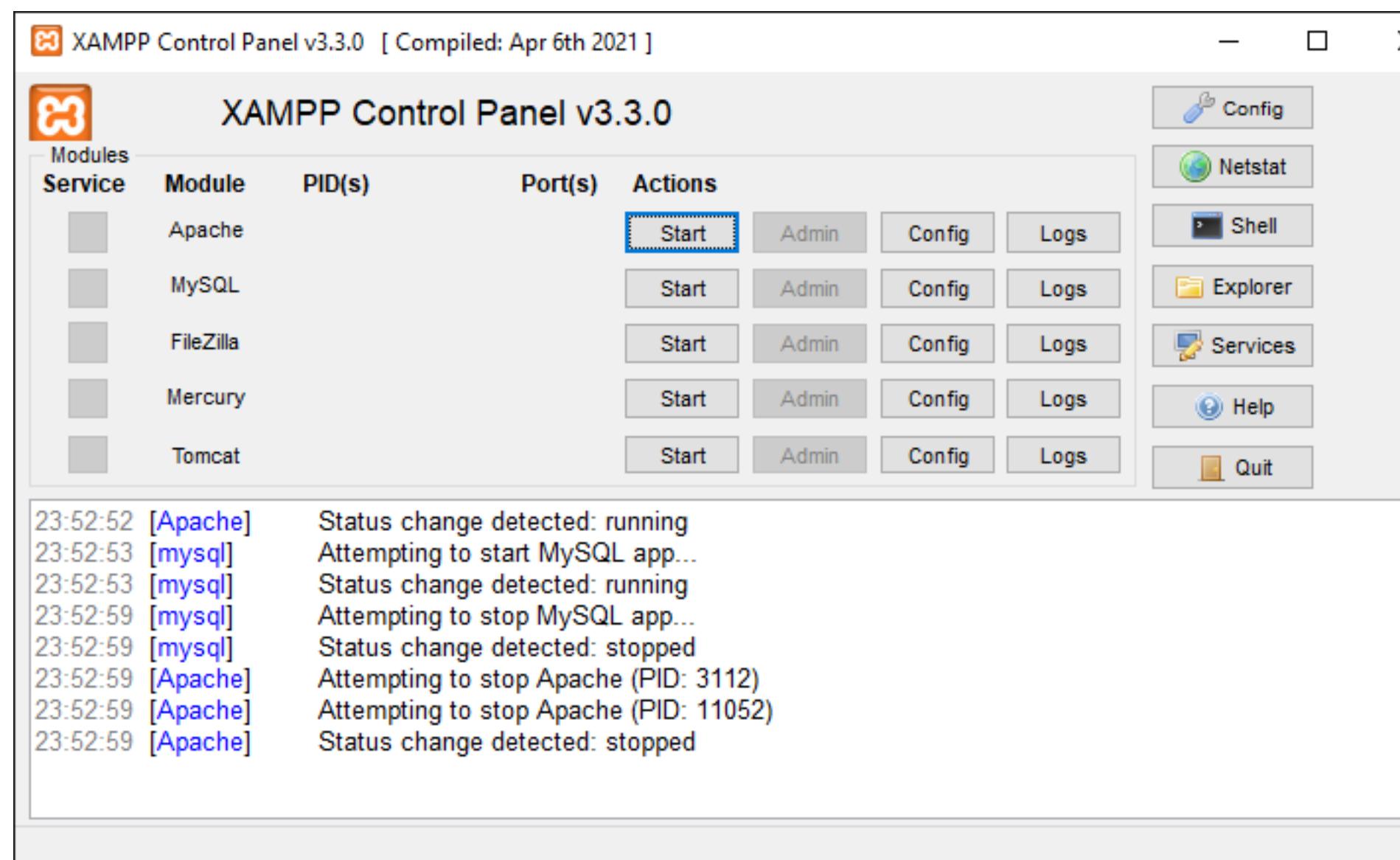
Version	Checksum	Size
7.4.28 / PHP 7.4.28	<a href="#">What's Included?</a> <a href="#">md5</a> <a href="#">sha1</a>	<a href="#">Download (64 bit)</a> 159 Mb
8.0.17 / PHP 8.0.17	<a href="#">What's Included?</a> <a href="#">md5</a> <a href="#">sha1</a>	<a href="#">Download (64 bit)</a> 160 Mb
8.1.4 / PHP 8.1.4	<a href="#">What's Included?</a> <a href="#">md5</a> <a href="#">sha1</a>	<a href="#">Download (64 bit)</a> 164 Mb

[Requirements](#) [Add-ons](#) [More Downloads »](#)

Windows XP or 2003 are not supported. You can download a compatible version of XAMPP for these platforms [here](#).

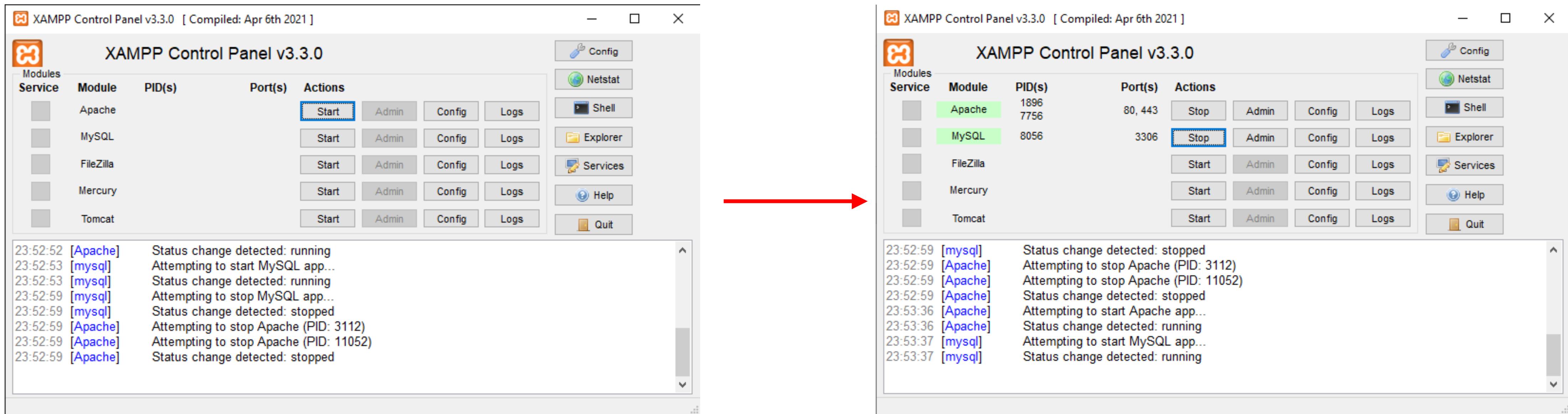
# INSTALASI

- Buka aplikasi XAMPP dan click tombol start pada Apache dan MySQL



# INSTALASI

- Masuk ke dalam C > xampp > htdocs dan buat folder dengan nama project kalian. Misal belajar-php



# INSTALASI

---

- Masuk ke dalam C > xampp > htdocs dan buat folder dengan nama project kalian. Misal belajar-php
- Buat file dengan nama index.php lalu masukkan kode ini <?php echo “Selamat datang php”;
- Buka browser dan tuliskan alamat localhost/belajar-php dan Jika berhasil akan muncul gambar seperti dibawah ini



# PHP FUNDAMENTAL

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- › PHP Variables & Constant
- › PHP Operators (Arithmetic, Comparison, Logical)
- › PHP Conditional (If, If Else, Else, Switch Case)
- › PHP Loop (Do While, For Loops)
- › PHP Include & Require
- › PHP Array & Multidimensional Array
- › PHP Functions

# PHP VARIABLE

---

```
❶ variabel.php ✘
1  <?php
2
3  // Style camel case
4  $warnaMobil = 'Merah';
5
6  // Style pascal case
7  $WarnaMobil = 'Kuning';
8
9  // Style underscore
10 $warna_mobil = 'Hijau';
11
12 // Yang penting konsisten
13
14 echo $warnaMobil.'<br/>';
15 echo $WarnaMobil.'<br/>';
16 echo $warna_mobil.'<br/>';
```

# PHP CONSTANT

---

- Define
- Const
- Define itu sifatnya global tapi tidak bisa digunakan di dalam class. Jika const bisa digunakan di dalam class ataupun global (php > 5.3)

# PHP DEFINE

---

```
🐘 define.php ✘  
1 <?php  
2 define( 'NAME' , 'Faerul Salamun' );  
3 echo NAME;
```

# PHP CONST

---

```
constant.php ×  
1 <?php  
2 const NAMA = 'Faerul Salamun';  
3 echo NAMA;|
```

# PHP OPERATORS

---

- Arithmetic
- Comparison
- Logical

# PHP ARITHMETIC

---

<b>Operator</b>	<b>Name</b>	<b>Example</b>	<b>Result</b>
+	Addition	$\$x + \$y$	Sum of $\$x$ and $\$y$
-	Subtraction	$\$x - \$y$	Difference of $\$x$ and $\$y$
*	Multiplication	$\$x * \$y$	Product of $\$x$ and $\$y$
/	Division	$\$x / \$y$	Quotient of $\$x$ and $\$y$
%	Modulus	$\$x \% \$y$	Remainder of $\$x$ divided by $\$y$

# PHP ARITHMETIC

---

```
arithmetic.php ✘
1  <?php
2
3  $harga_satu = 10;
4  $harga_dua = 20;
5
6  // Penjumlahan
7  $jumlah = $harga_satu + $harga_dua;
8
9  echo $jumlah.'<br/>';
10
11 // Pengurangan
12 $pengurangan = $harga_dua - $harga_satu;
13
14 echo $pengurangan.'<br/>';
15
16 // Pengkalian
17 $pengkalian = $harga_satu * $harga_dua;
18
19 echo $pengkalian.'<br/>';
20
21 // Pembagian
22 $pembagian = $harga_dua / $harga_satu;
23
24 echo $pembagian.'<br/>';
25
26 // Mod
27 $modulus = $harga_dua % $harga_satu;
28
29 echo $modulus.'<br/>';
30
```

# PHP COMPARISON

---

<b>Operator</b>	<b>Name</b>	<b>Example</b>	<b>Result</b>
<code>==</code>	Equal	<code>\$x == \$y</code>	Returns true if <code>\$x</code> is equal to <code>\$y</code>
<code>===</code>	Identical	<code>\$x === \$y</code>	Returns true if <code>\$x</code> is equal to <code>\$y</code> , and they are of the same type
<code>!=</code>	Not equal	<code>\$x != \$y</code>	Returns true if <code>\$x</code> is not equal to <code>\$y</code>
<code>&lt;&gt;</code>	Not equal	<code>\$x &lt;&gt; \$y</code>	Returns true if <code>\$x</code> is not equal to <code>\$y</code>
<code>!==</code>	Not identical	<code>\$x !== \$y</code>	Returns true if <code>\$x</code> is not equal to <code>\$y</code> , or they are not of the same type
<code>&gt;</code>	Greater than	<code>\$x &gt; \$y</code>	Returns true if <code>\$x</code> is greater than <code>\$y</code>
<code>&lt;</code>	Less than	<code>\$x &lt; \$y</code>	Returns true if <code>\$x</code> is less than <code>\$y</code>
<code>&gt;=</code>	Greater than or equal to	<code>\$x &gt;= \$y</code>	Returns true if <code>\$x</code> is greater than or equal to <code>\$y</code>
<code>&lt;=</code>	Less than or equal to	<code>\$x &lt;= \$y</code>	Returns true if <code>\$x</code> is less than or equal to <code>\$y</code>

# PHP COMPARISON

---

```
comparison.php x
1  <?php
2
3  $harga_satu = 10;
4  $harga_dua = "10";
5
6  // Sama dengan
7  var_dump($harga_satu == $harga_dua);
8  echo '<br/>';
9
10 // Sama dengan disesuaikan dengan tipe datanya
11 var_dump($harga_satu === $harga_dua);
12 echo '<br/>';
13
14 // Tidak sama dengan
15 var_dump($harga_satu == $harga_dua);
16 echo '<br/>';
17
18 // Tidak sama dengan disesuaikan dengan tipe datanya
19 var_dump($harga_satu === $harga_dua);
20 echo '<br/>';
21
22 // Lebih besar
23 var_dump($harga_satu > $harga_dua);
24 echo '<br/>';
25
26 // Lebih besar sama dengan
27 var_dump($harga_satu >= $harga_dua);
28 echo '<br/>';
29
30 // Kurang besar
31 var_dump($harga_satu < $harga_dua);
32 echo '<br/>';
33
34 // Kurang besar sama dengan
35 var_dump($harga_satu <= $harga_dua);
36 echo '<br/>';
```

# PHP LOGICAL

---

<b>Operator</b>	<b>Name</b>	<b>Example</b>	<b>Result</b>
and	And	<code>\$x and \$y</code>	True if both \$x and \$y are true
or	Or	<code>\$x or \$y</code>	True if either \$x or \$y is true
xor	Xor	<code>\$x xor \$y</code>	True if either \$x or \$y is true, but not both
<code>&amp;&amp;</code>	And	<code>\$x &amp;&amp; \$y</code>	True if both \$x and \$y are true
<code>  </code>	Or	<code>\$x    \$y</code>	True if either \$x or \$y is true
!	Not	<code>!\$x</code>	True if \$x is not true

# PHP LOGICAL

---

```
logical.php ✘
1  <?php
2
3  $harga_satu = 10;
4  $harga_dua = "10";
5
6  // AND, && kondisi 2 nya harus terpenuhi
7  if($harga_satu == "10" && $harga_dua == "10"){
8      echo 'Kondisi and terpenuhi <br/>';
9  }
10
11 // OR, || kondisi salah satu terpenuhi
12 if($harga_satu == "10" || $harga_dua == "10"){
13     echo 'Kondisi or terpenuhi <br/>';
14 }
15
16 // XOR kondisi salah satu terpenuhi, tidak boleh keduanya
17 if($harga_satu == "10" || $harga_dua == "100"){
18     echo 'Kondisi xor terpenuhi <br/>';
19 }
20
21 // Not tidak sama dengan
22 if($harga_satu != "100"){
23     echo 'Kondisi not terpenuhi <br/>';
24 }
```

# PHP CONDITIONAL

---

- › If Else If Else
- › Switch Case

# PHP CONDITIONAL IF ELSE IF

---

```
if.php x

1 <?php
2
3 $harga_satu = 10;
4
5 // IF
6 if($harga_satu == 10){
7     echo 'Kondisi if terpenuhi <br/>';
8 }
9
10 // IF ELSE
11 if($harga_satu == "99"){
12     echo 'Kondisi if terpenuhi <br/>';
13 }else{
14     echo 'Kondisi if tidak terpenuhi <br/>';
15 }
16
17 // IF ELSE IF ELSE
18 if($harga_satu == "99"){
19     echo 'Kondisi if terpenuhi <br/>';
20 }else if($harga_satu == 10){
21     echo 'Kondisi else if terpenuhi <br/>';
22 }else{
23     echo 'Kondisi if dan else if tidak terpenuhi <br/>';
24 }
```

# PHP SWITCH CASE

---

```
switch.php ✘

1 <?php
2
3 $harga_satu = 10;
4
5 switch ($harga_satu) {
6     case 10:
7         echo "Angka adalah 10";
8         break;
9     case 20:
10        echo "Angka adalah 20";
11        break;
12    case 30:
13        echo "Angka adalah 30";
14        break;
15    default:
16        echo "Angka tidak diketahui";
17 }
```

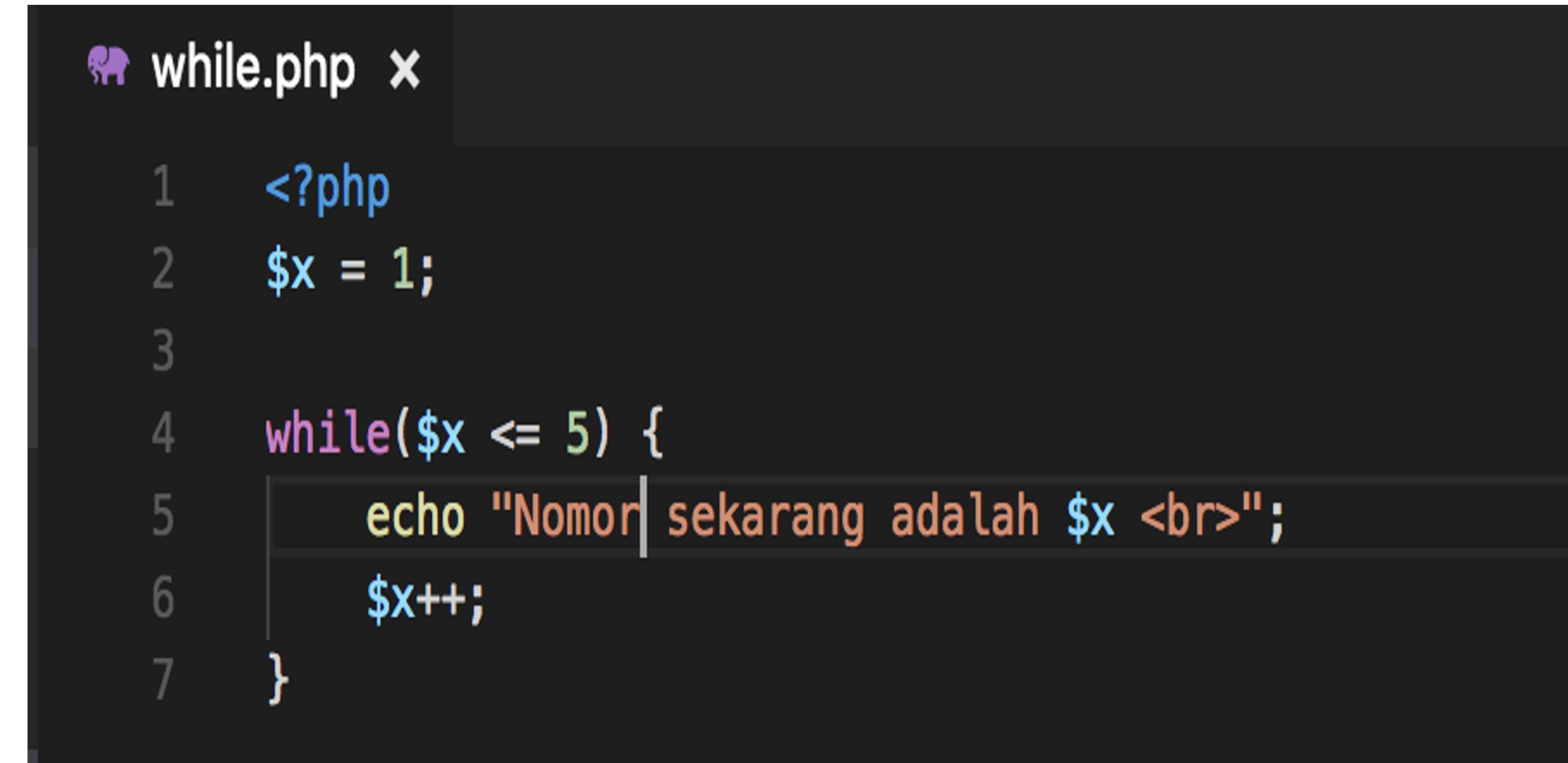
# PHP LOOP

---

- While, Do While
- For Loops

# PHP WHILE

---



The image shows a screenshot of a code editor with a dark theme. A file named "while.php" is open, indicated by the icon and the file name in the title bar. The code contains a simple while loop that prints the value of \$x from 1 to 5. The code is as follows:

```
1 <?php
2 $x = 1;
3
4 while($x <= 5) {
5     echo "Nomor| sekarang adalah $x <br>";
6     $x++;
7 }
```

The cursor is positioned at the end of the string in line 5, just before the closing brace of the loop.

# PHP DO WHILE

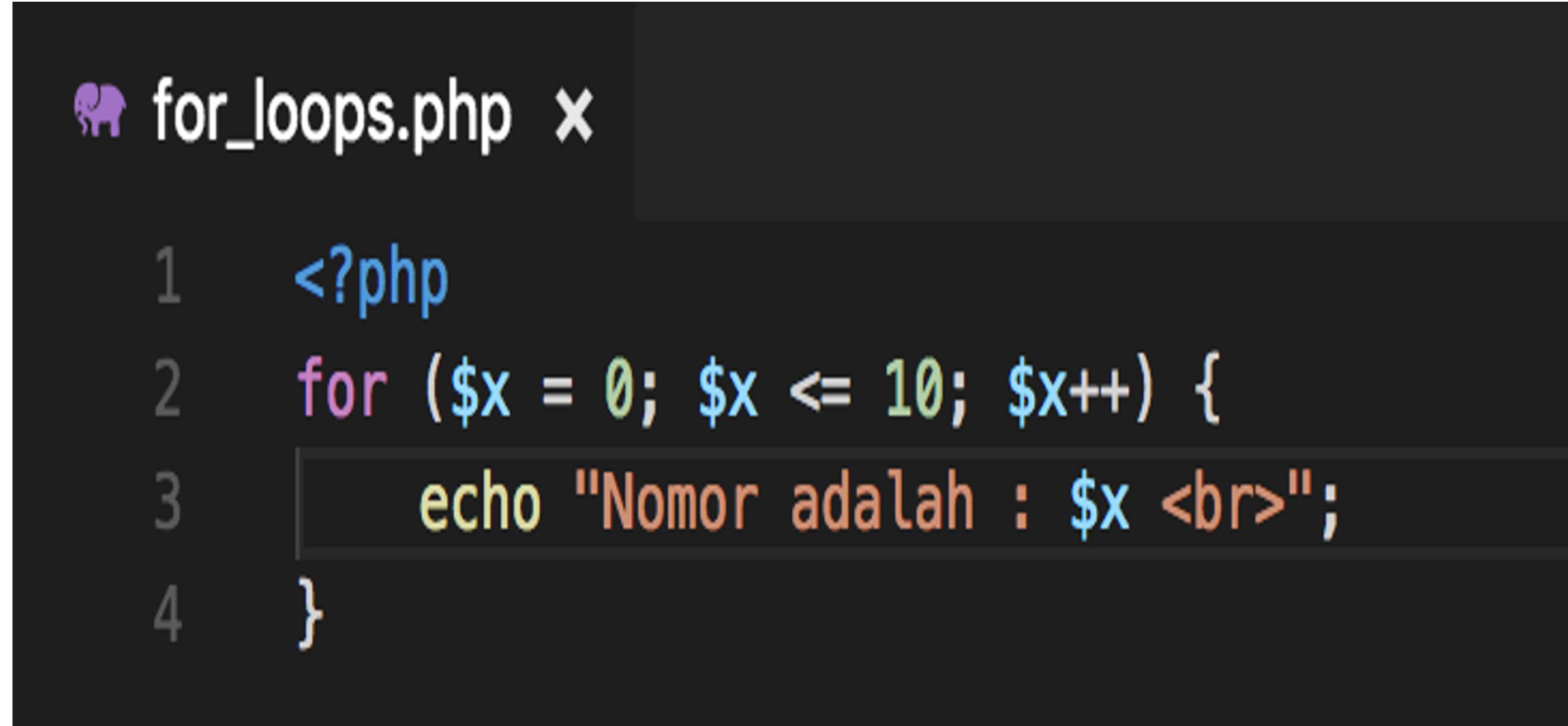
---

```
❶ do_while.php ✘

1  <?php
2  $x = 1;
3
4  do {
5      echo "Nomer adalah : $x <br>";
6      $x++;
7  } while ($x == 1);
```

# PHP LOOP

---

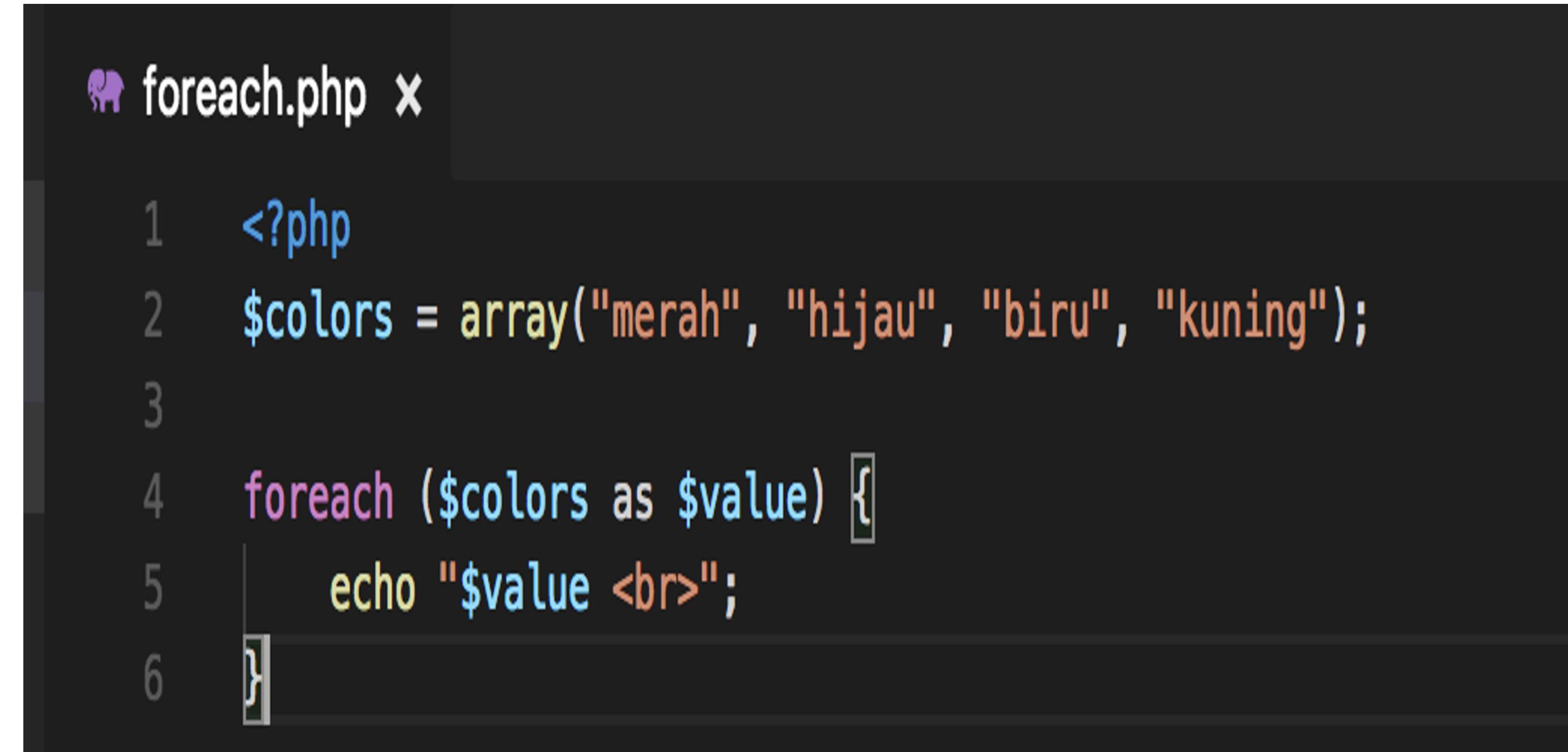


The image shows a screenshot of a code editor with a dark theme. A file named "for\_loops.php" is open. The code contains a simple for loop that prints the numbers from 0 to 10, each on a new line. The code is numbered 1 through 4 on the left.

```
1 <?php
2 for ($x = 0; $x <= 10; $x++) {
3     echo "Nomor adalah : $x <br>";
4 }
```

# PHP FOREACH

---



The image shows a screenshot of a code editor with a dark theme. A file named "foreach.php" is open, indicated by the icon and the file name in the title bar. The code inside the file is as follows:

```
1 <?php
2 $colors = array("merah", "hijau", "biru", "kuning");
3
4 foreach ($colors as $value) {
5     echo "$value <br>";
6 }
```

# PHP INCLUDE & REQUIRE

---

- Fungsi yang digunakan untuk menyertakan file php lain ke dalam suatu program PHP.
- Include jika mengalami error maka kode yang dibawahnya akan tetap di eksekusi. Sedangkan Require tidak akan di eksekusi

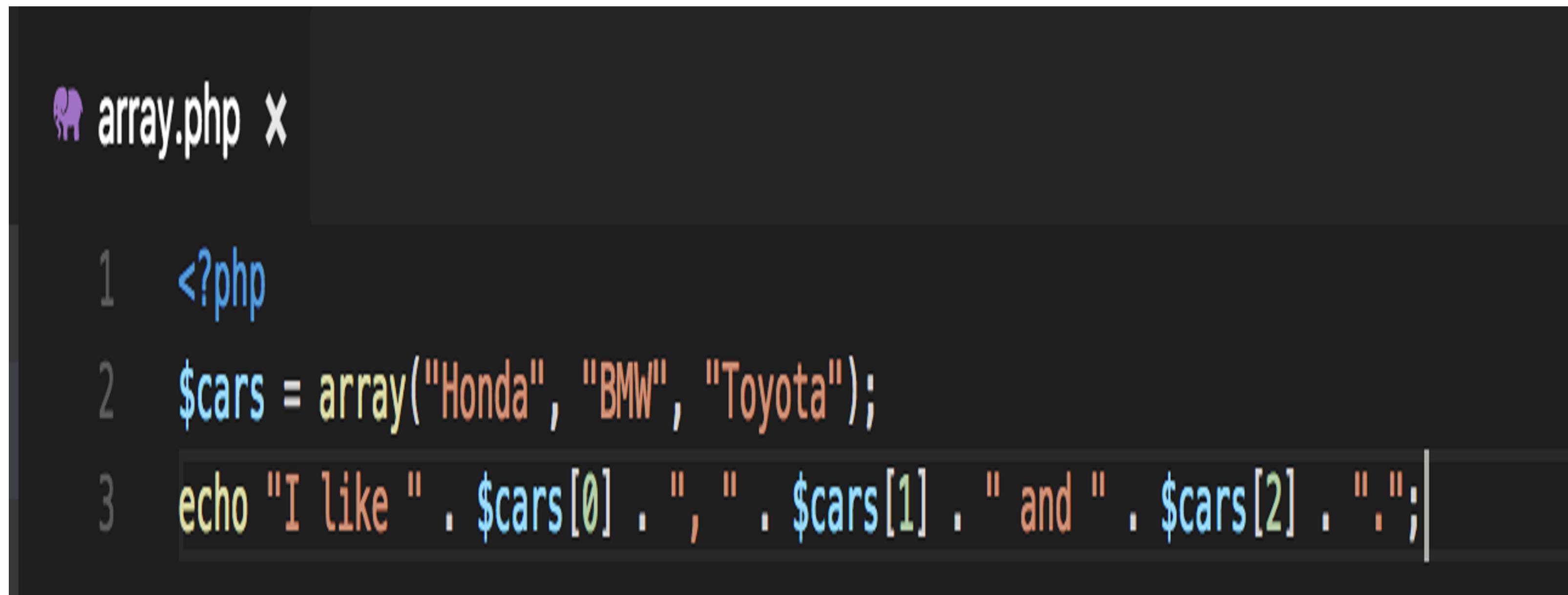
```
index.php ×  
1 <?php  
2 include 'header.php';  
3  
4 echo 'Ini adalah body';
```

```
index.php ×  
1 <?php  
2 require 'header.php';  
3  
4 echo 'Ini adalah body';|
```

# PHP ARRAY

---

- Array merupakan sebuah variabel yang menyimpan lebih dari 1 buah data yang memiliki tipe data yang sama.



```
array.php ×

1 <?php
2 $cars = array("Honda", "BMW", "Toyota");
3 echo "I like " . $cars[0] . ", " . $cars[1] . " and " . $cars[2] . ",";
```

# PHP ARRAY MULTIDIMENSI

- Array Multidimensi Merupakan sebuah variabel yang menyimpan sekumpulan data yang memiliki tipe sama dan elemen yang akan diakses melalui banyak indeks atau subskrip.

```
array_multidimensi.php ×

1  <?php
2  $cars = array
3  (
4      array("Volvo",22,18),
5      array("BMW",15,13),
6      array("Saab",5,2),
7      array("Land Rover",17,15)
8  );
9
10 foreach($cars as $car)
11 {
12     foreach($car as $detail)
13     {
14         echo $detail.'<br/>';
15     }
16 }
```

# PHP FUNCTION

---

- Function berguna untuk menghindari penulisan code berulang-ulang (sama)

```
function.php ✘  
1  <?php  
2  
3  [-] function add($angka_satu, $angka_dua){  
4      |     echo $angka_satu + $angka_dua;  
5  }  
6  
7  [-] function minus($angka_satu, $angka_dua){  
8      |     echo $angka_satu - $angka_dua;  
9  }  
10  
11  add(10,20);  
12  minus(20,30);
```

# LARAVEL

# LARAVEL

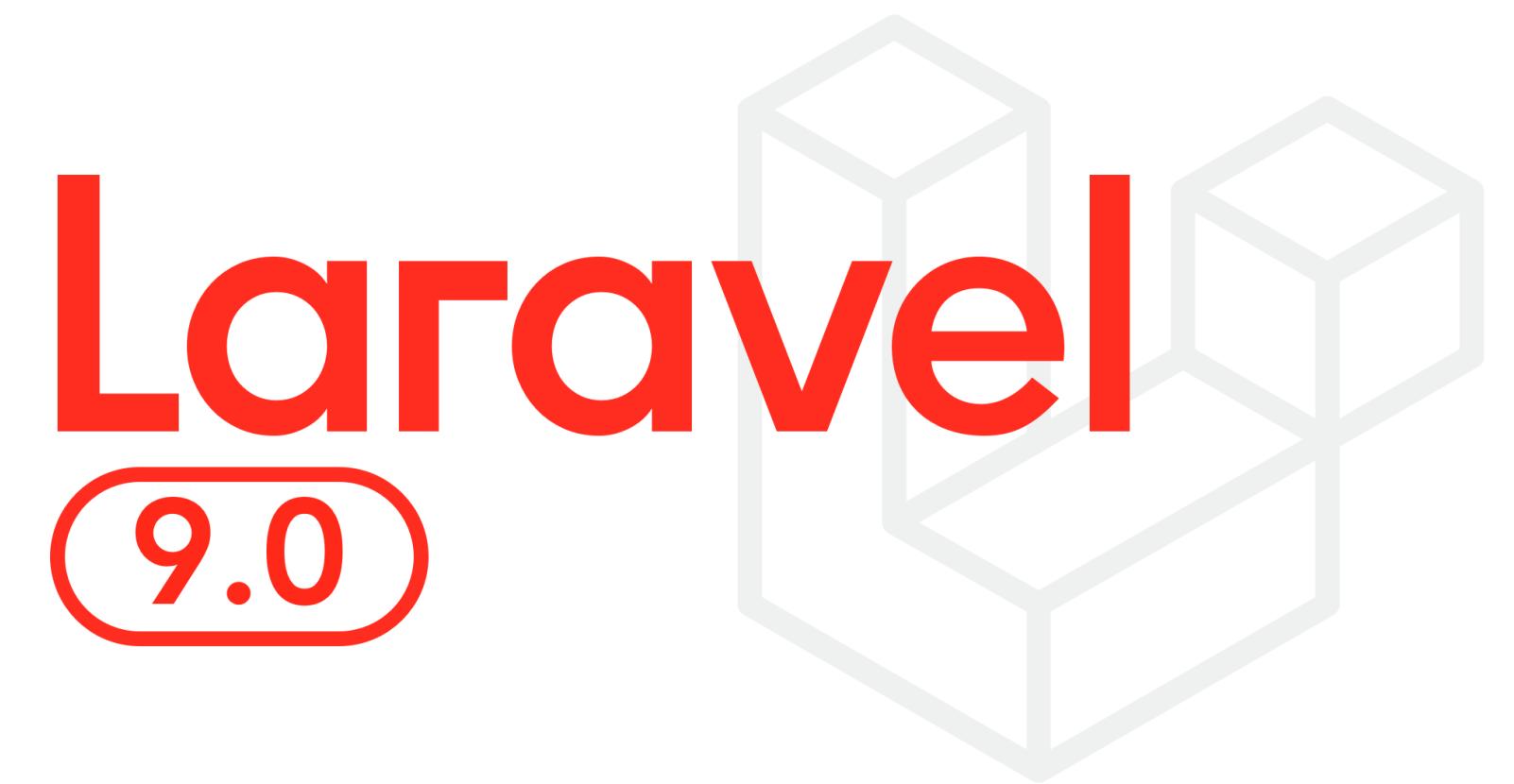
---

- Laravel merupakan salah satu framework pada PHP yang membantu untuk memaksimalkan penggunaan PHP di dalam proses pengembangan website.

# WHY LARAVEL ?

---

- MVC (Model View Controller)
- Support
- Community
- Library
- Powerful
- Free



# REQUIREMENT LARAVEL

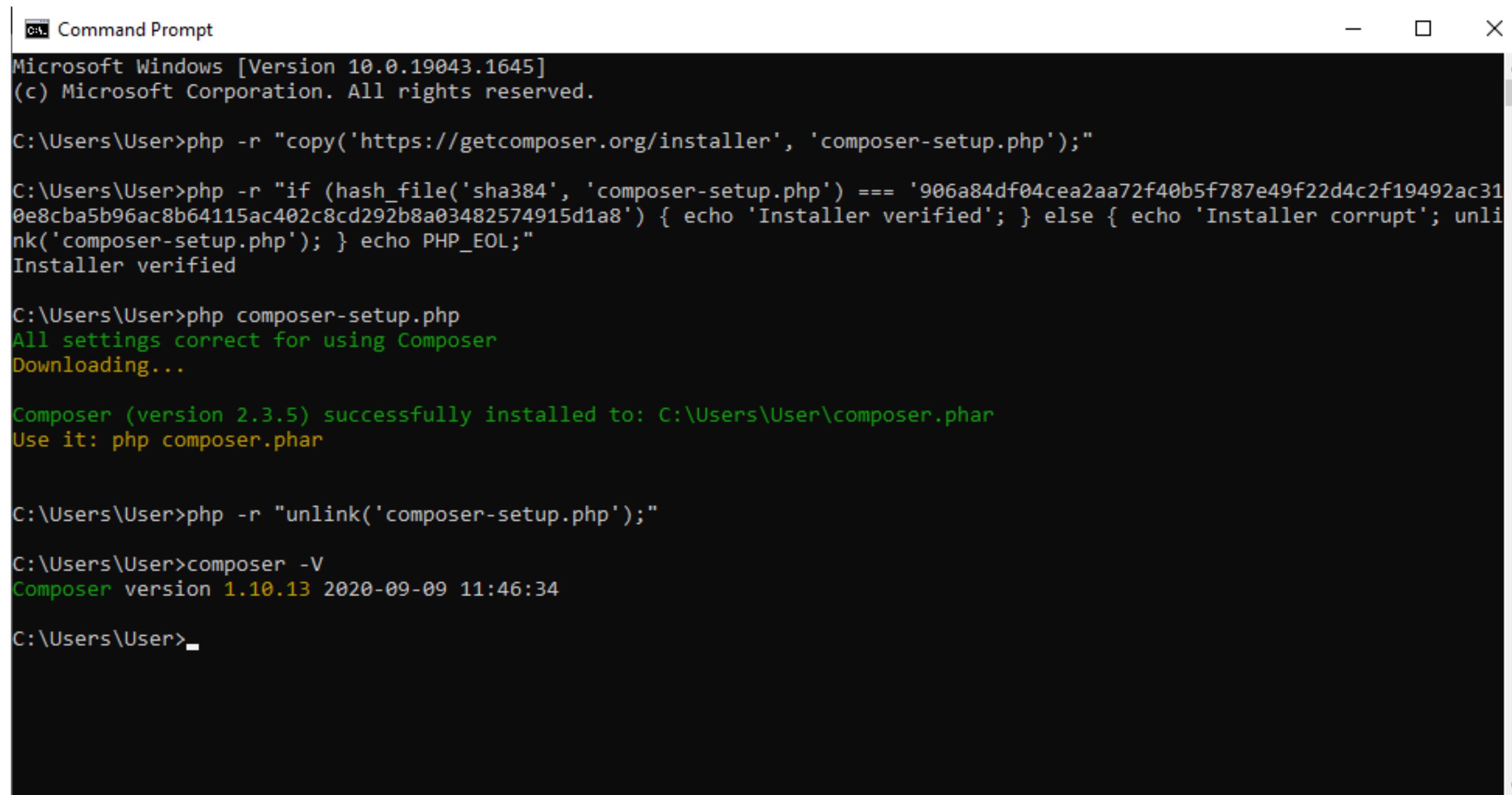
---

- PHP >= 8.0.0
- OpenSSL PHP Extension
- PDO PHP Extension
- Mbstring PHP Extension
- Tokenizer PHP Extension
- XML PHP Extension Composer

# HOW TO INSTALL LARAVEL ?

---

- ▶ Pastikan sudah mendownload composer <https://getcomposer.org/download>



The screenshot shows a Microsoft Windows Command Prompt window titled "Command Prompt". The window displays the following terminal session:

```
Microsoft Windows [Version 10.0.19043.1645]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"

C:\Users\User>php -r "if (hash_file('sha384', 'composer-setup.php') === '906a84df04cea2aa72f40b5f787e49f22d4c2f19492ac310e8cba5b96ac8b64115ac402c8cd292b8a03482574915d1a8') { echo 'Installer verified'; } else { echo 'Installer corrupt'; unlink('composer-setup.php'); } echo PHP_EOL;"
Installer verified

C:\Users\User>php composer-setup.php
All settings correct for using Composer
Downloading...

Composer (version 2.3.5) successfully installed to: C:\Users\User\composer.phar
Use it: php composer.phar

C:\Users\User>php -r "unlink('composer-setup.php');"

C:\Users\User>composer -V
Composer version 1.10.13 2020-09-09 11:46:34

C:\Users\User>
```

# HOW TO INSTALL LARAVEL ?

---

- composer global require laravel/installer

```
faerulsalamun@Faerul-Salamun-MacBook-Pro Downloads % composer global require "laravel/installer"
Changed current directory to /Users/faerulsalamun/.composer
Info from https://repo.packagist.org: #StandWithUkraine
Using version ^4.2 for laravel/installer
./composer.json has been created
Running composer update laravel/installer
Loading composer repositories with package information
Updating dependencies
Lock file operations: 10 installs, 0 updates, 0 removals
  - Locking laravel/installer (v4.2.10)
  - Locking psr/container (2.0.2)
  - Locking symfony/console (v6.0.7)
  - Locking symfony/polyfill-ctype (v1.25.0)
  - Locking symfony/polyfill-intl-grapheme (v1.25.0)
  - Locking symfony/polyfill-intl-normalizer (v1.25.0)
  - Locking symfony/polyfill-mbstring (v1.25.0)
  - Locking symfony/process (v6.0.7)
  - Locking symfony/service-contracts (v3.0.1)
  - Locking symfony/string (v6.0.3)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 10 installs, 0 updates, 0 removals
  - Downloading symfony/process (v6.0.7)
  - Downloading symfony/polyfill-mbstring (v1.25.0)
  - Downloading symfony/polyfill-intl-normalizer (v1.25.0)
  - Downloading symfony/polyfill-intl-grapheme (v1.25.0)
  - Downloading symfony/polyfill-ctype (v1.25.0)
  - Downloading symfony/string (v6.0.3)
  - Downloading psr/container (2.0.2)
  - Downloading symfony/service-contracts (v3.0.1)
  - Downloading symfony/console (v6.0.7)
  - Downloading laravel/installer (v4.2.10)
  - Installing symfony/process (v6.0.7): Extracting archive
  - Installing symfony/polyfill-mbstring (v1.25.0): Extracting archive
  - Installing symfony/polyfill-intl-normalizer (v1.25.0): Extracting archive
  - Installing symfony/polyfill-intl-grapheme (v1.25.0): Extracting archive
  - Installing symfony/polyfill-ctype (v1.25.0): Extracting archive
  - Installing symfony/string (v6.0.3): Extracting archive
  - Installing psr/container (2.0.2): Extracting archive
  - Installing symfony/service-contracts (v3.0.1): Extracting archive
  - Installing symfony/console (v6.0.7): Extracting archive
  - Installing laravel/installer (v4.2.10): Extracting archive
4 package suggestions were added by new dependencies, use `composer suggest` to see details.
Generating autoload files
8 packages you are using are looking for funding.
Use the `composer fund` command to find out more!
```

# HOW TO INSTALL LARAVEL ?

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- composer create-project --prefer-dist laravel/laravel gallery

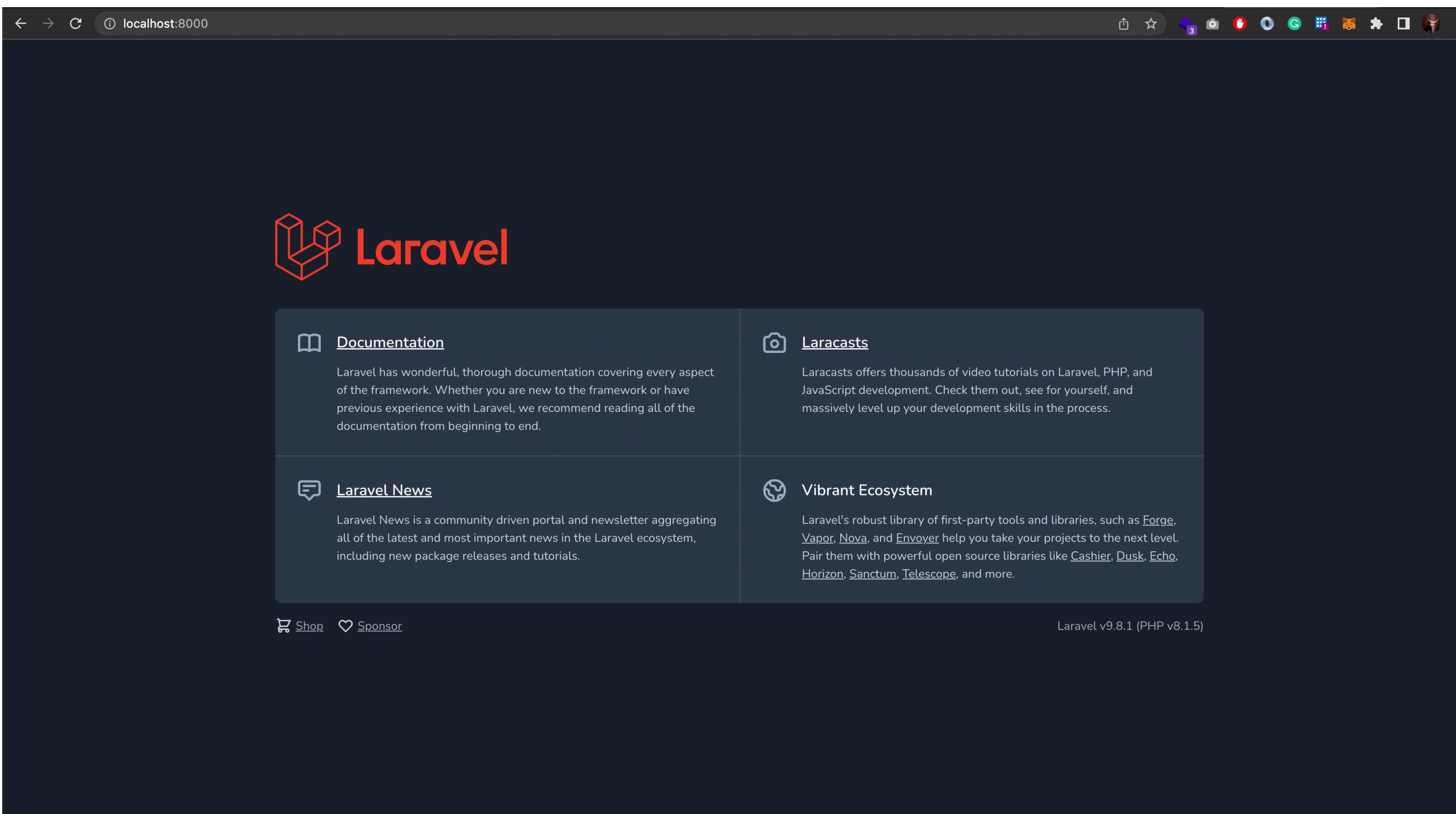
```
[faerulsalamun@Faerul-Salamun-MacBook-Pro Downloads % composer create-project --prefer-dist laravel/laravel gallery
Creating a "laravel/laravel" project at "./gallery"
Installing laravel/laravel (v9.1.5)
  - Downloading laravel/laravel (v9.1.5)
    - Installing laravel/laravel (v9.1.5): Extracting archive
Created project in /Users/faerulsalamun/Downloads/gallery
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 168 installs, 0 updates, 0 removals
  - Locking brick/math (0.9.3)
  - Locking dflydev/dot-access-data (v3.0.1)
  - Locking doctrine/inflector (2.0.4)
  - Locking doctrine/instantiator (1.4.1)
  - Locking doctrine/lexer (1.2.3)
  - Locking dragonmantank/cron-expression (v3.3.1)
  - Locking egulias/email-validator (3.1.2)
  - Locking facade/ignition-contracts (1.0.2)
  - Locking fakerphp/faker (v1.19.0)
  - Locking filp/whoops (2.14.5)
  - Locking fruitcake/php-cors (v1.2.0)
  - Locking graham-campbell/result-type (v1.0.4)
  - Locking guzzlehttp/guzzle (7.4.2)
  - Locking guzzlehttp/promises (1.5.1)
  - Locking guzzlehttp/psr7 (2.2.1)
  - Locking hamcrest/hamcrest-php (v2.0.1)
  - Locking laravel/framework (v9.8.1)
  - Locking laravel/sail (v1.13.9)
  - Locking laravel/sanctum (v2.15.1)
  - Locking laravel/serializable-closure (v1.1.1)
  - Locking laravel/tinker (v2.7.2)
  - Locking league/commonmark (2.3.0)
  - Locking league/config (v1.1.1)
  - Locking league/flysystem (3.0.17)
  - Locking league/nime-type-detection (1.11.0)
  - Locking mockery/mockery (1.5.0)
  - Locking monolog/monolog (2.5.0)
  - Locking myclabs深深 (v1.11.0)
  - Locking nesbot/carbon (2.57.0)
  - Locking nette/schema (v1.2.2)
  - Locking nette/utils (v3.2.7)
  - Locking nikic/php-parser (v4.13.2)
  - Locking nunomaduro/collision (v6.2.0)
  - Locking phar-io/manifest (2.0.3)
  - Locking phar-io/version (3.2.1)
  - Locking phpdocumentor/reflection-common (2.2.0)
  - Locking phpdocumentor/reflection-docblock (5.3.0)
  - Locking phpdocumentor/type-resolver (1.6.1)
  - Locking phppoption/phppoption (1.8.1)
  - Locking phpspec/prophesy (v1.15.0)
  - Locking phpunit/php-code-coverage (9.2.15)
  - Locking phpunit/php-file-iterator (3.0.6)
  - Locking phpunit/php-invoker (3.1.1)
  - Locking phpunit/php-text-template (2.0.4)
  - Locking phpunit/php-timer (5.0.3)
  - Locking phpunit/phpunit (9.5.20)
  - Locking psr/container (2.0.2)
  - Locking psr/event-dispatcher (1.0.0)
  - Locking psr/http-client (1.0.1)
  - Locking psr/http-factory (1.0.1)
  - Locking psr/http-message (1.0.1)
  - Locking psr/log (3.0.0)
  - Locking psr/simple-cache (3.0.0)
```

# RUN LARAVEL

---

- ▶ `php artisan serve`

```
[faerulsalamun@Faerul-Salamun-MacBook-Pro gallery % php artisan serve
Starting Laravel development server: http://127.0.0.1:8000
[Sun Apr 17 23:45:16 2022] PHP 8.1.5 Development Server (http://127.0.0.1:8000) started
```



# NEXT ?

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- Laravel