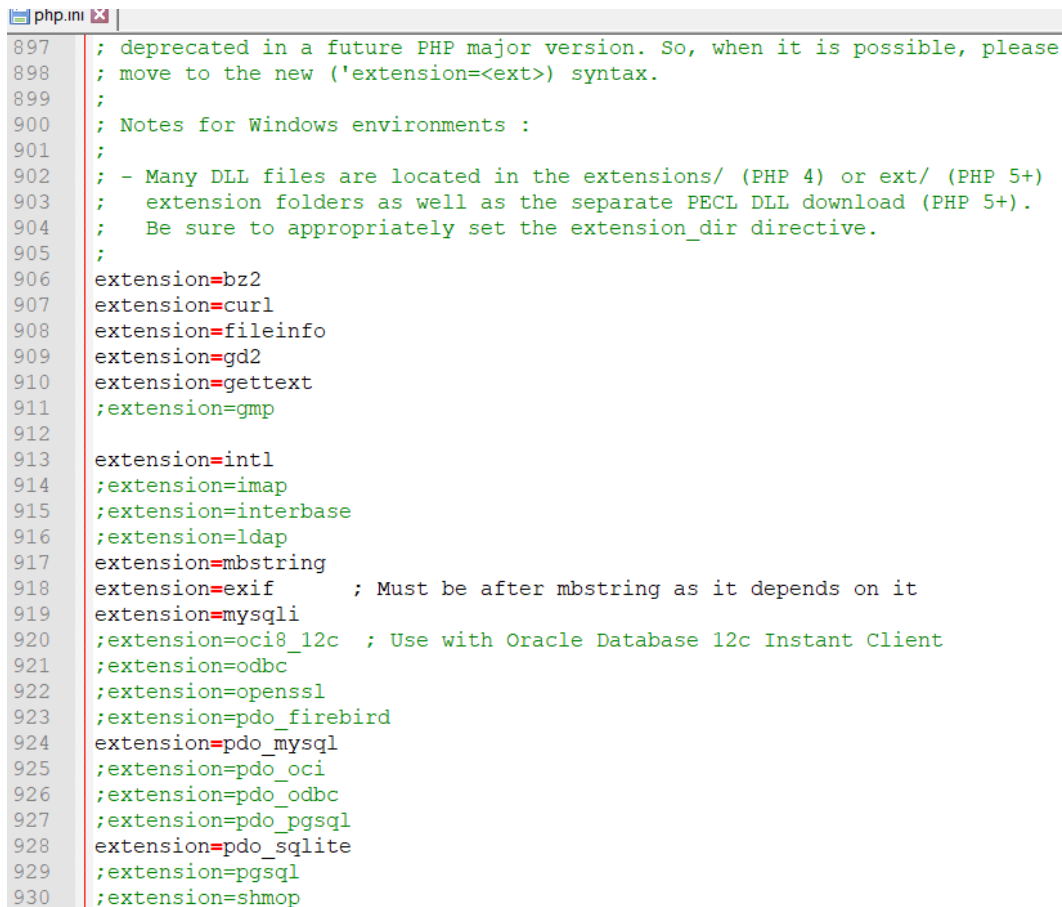


HƯỚNG DẪN CÀI ĐẶT LARAVEL VÀ VIẾT CHƯƠNG TRÌNH ĐẦU TIÊN SỬ DỤNG LARAVEL

1. Cấu hình yêu cầu của Laravel 6

- PHP >= 7.2.0
- BCMath PHP Extension
- Ctype PHP Extension
- JSON PHP Extension
- Mbstring PHP Extension
- OpenSSL PHP Extension
- PDO PHP Extension
- Tokenizer PHP Extension
- XML PHP Extension

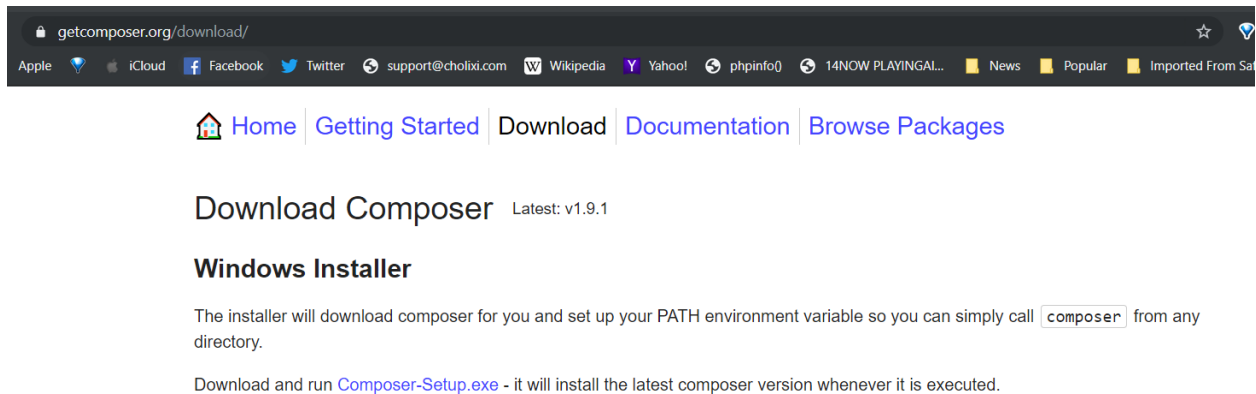
Cần kiểm tra phần này trong phần cấu hình của php.



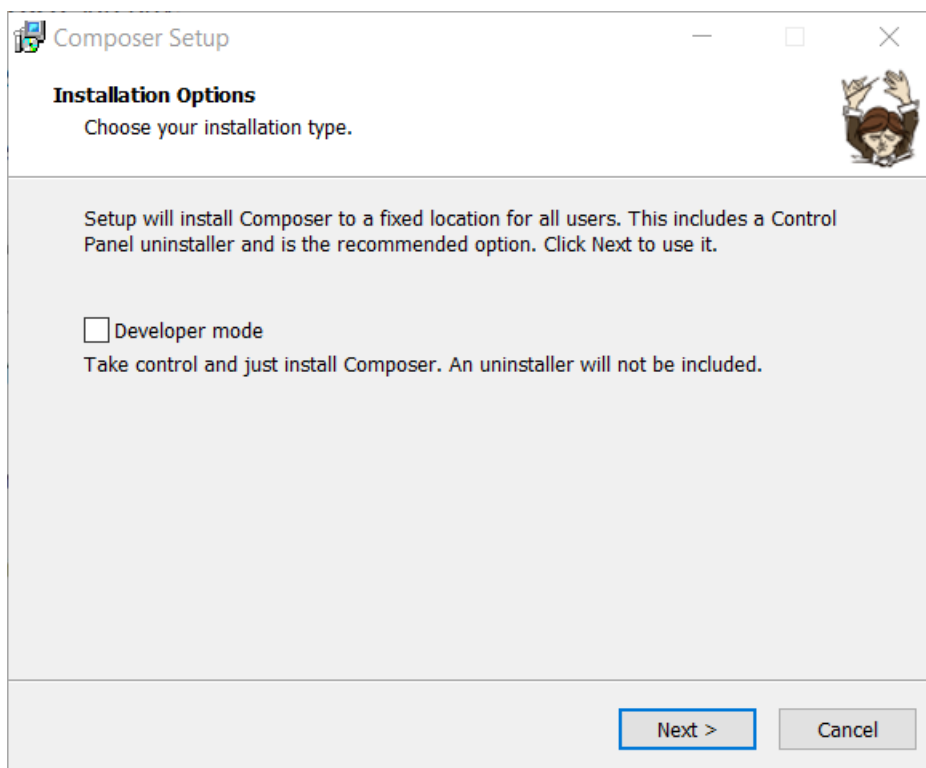
```
897 ; deprecated in a future PHP major version. So, when it is possible, please
898 ; move to the new ('extension=<ext>') syntax.
899 ;
900 ; Notes for Windows environments :
901 ;
902 ; - Many DLL files are located in the extensions/ (PHP 4) or ext/ (PHP 5+)
903 ;   extension folders as well as the separate PECL DLL download (PHP 5+).
904 ;   Be sure to appropriately set the extension_dir directive.
905 ;
906 extension=bz2
907 extension=curl
908 extension=fileinfo
909 extension=gd2
910 extension=gettext
911 ;extension=gmp
912
913 extension=intl
914 ;extension=imap
915 ;extension=interbase
916 ;extension=ldap
917 extension=mbstring
918 extension=exif      ; Must be after mbstring as it depends on it
919 extension=mysqli
920 ;extension=oci8_12c ; Use with Oracle Database 12c Instant Client
921 ;extension=odbc
922 ;extension=openssl
923 ;extension=pdo_firebird
924 extension=pdo_mysql
925 ;extension=pdo_oci
926 ;extension=pdo_odbc
927 ;extension=pdo_pgsql
928 extension=pdo_sqlite
929 ;extension=pgsql
930 ;extension=shmop
```

2. Cài composer.exe

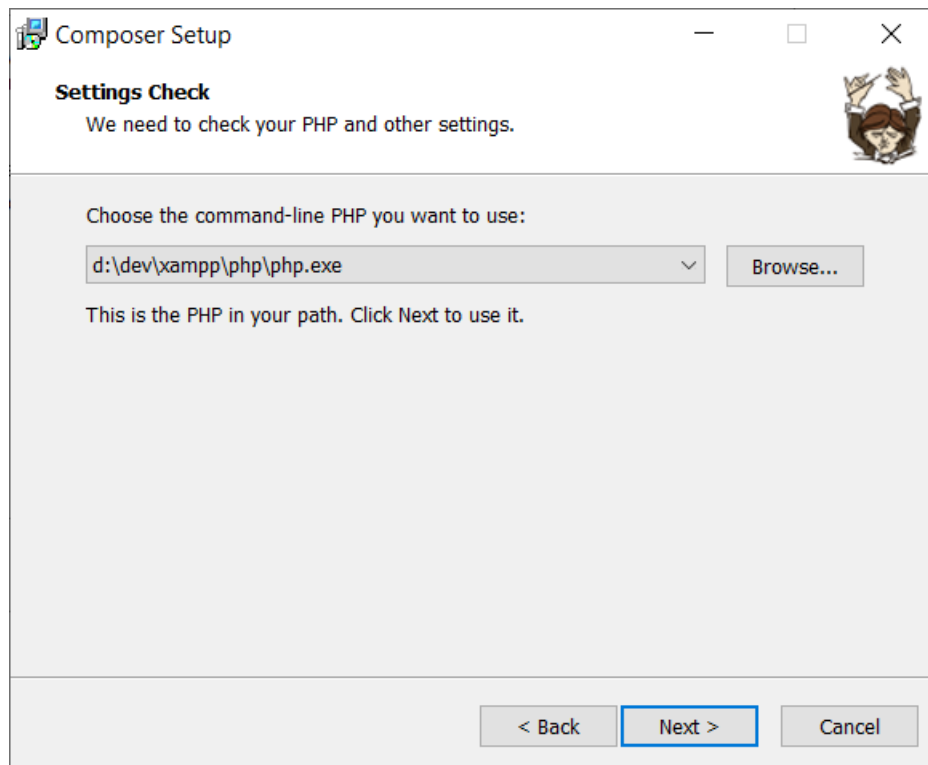
- Truy cập trang: <http://getcomposer.org/download/> và tải **Composer-Setup.exe**



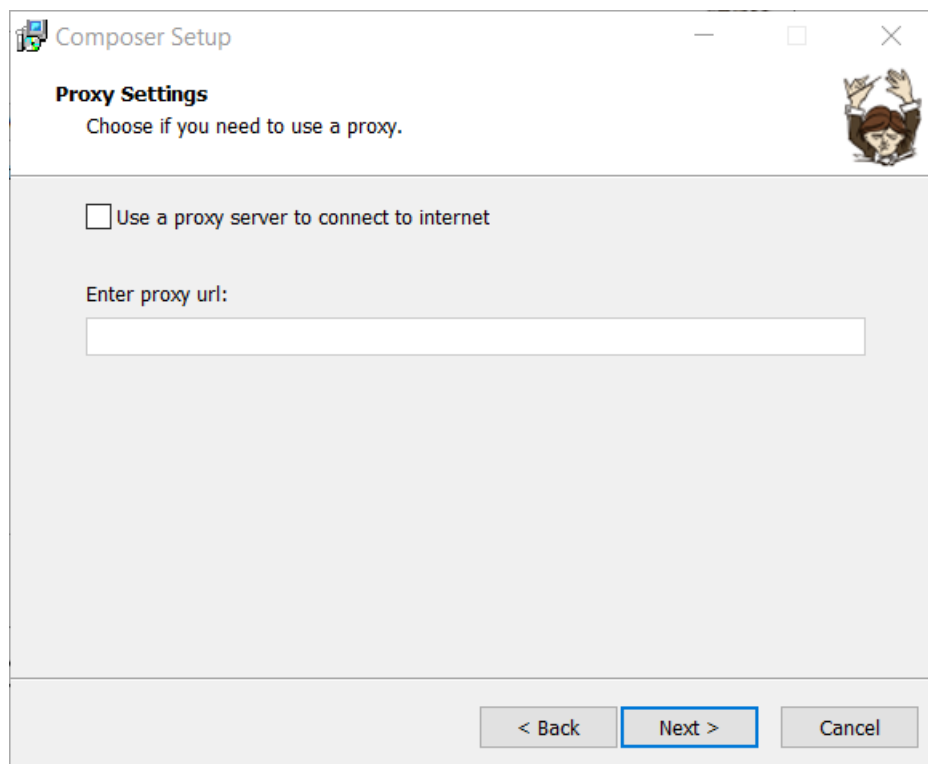
- Chạy file **Composer-Setup.exe** để tiến hành cài đặt.



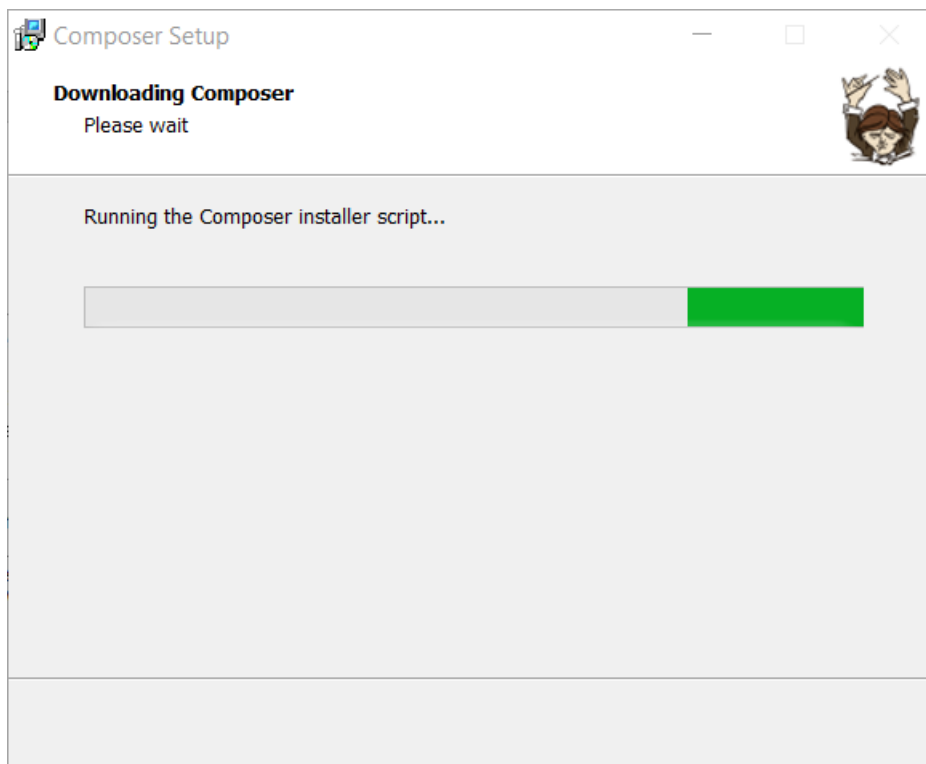
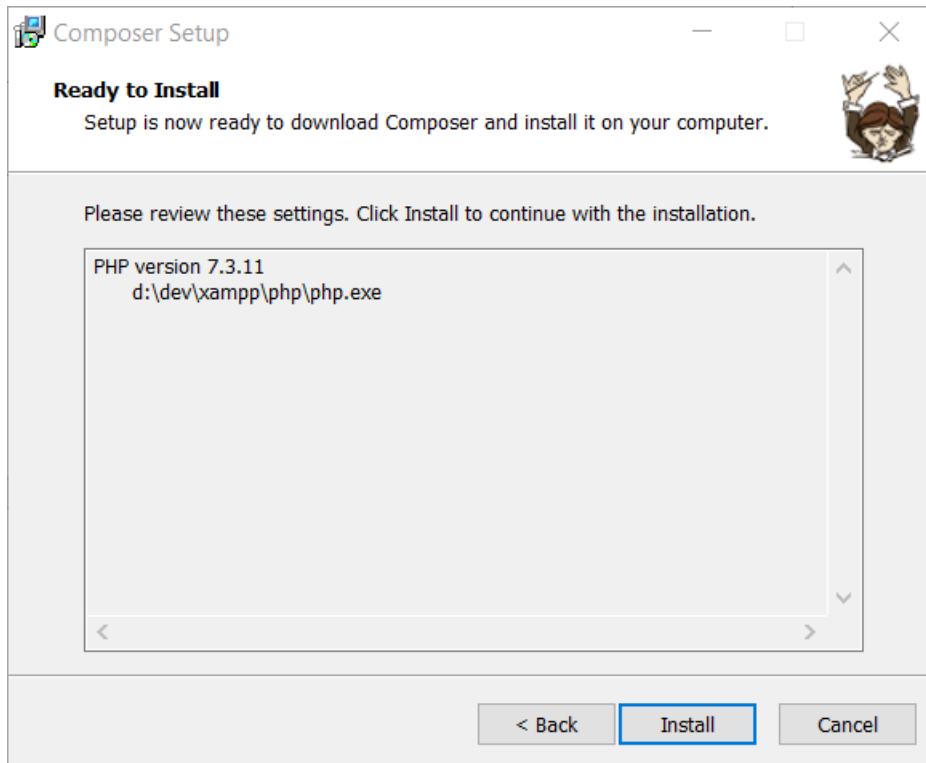
Bài thực hành Laravel số 1

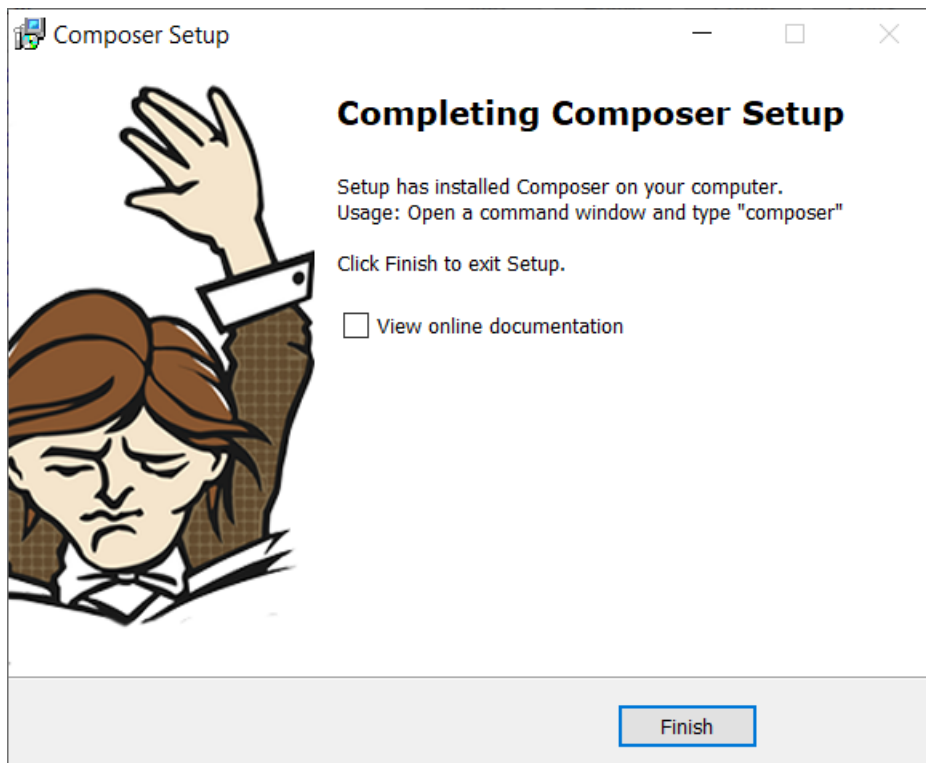


- Chú ý chọn đường dẫn cho tập tin php.exe phù hợp



Bài thực hành Laravel số 1





- Sau khi cài xong, mở **Windows PowerShell** lên, nhập lệnh: `composer -v`, màn hình hiện lên kết quả giống hình bên dưới là cài đặt thành công.

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\quang> composer -v

Composer version 1.9.1 2019-11-01 17:20:17

Usage:
  command [options] [arguments]

Options:
  -h, --help                Display this help message
  -q, --quiet               Do not output any message
  -V, --version             Display this application version
  --ansi                   Force ANSI output
  --no-ansi                Disable ANSI output
  -n, --no-interaction      Do not ask any interactive question
  --profile                Display timing and memory usage information
  --no-plugins              Whether to disable plugins.
  -d, --working-dir=WORKING-DIR
                           If specified, use the given directory as working directory.
  --no-cache                Prevent use of the cache
  -v|vv|vvv, --verbose     Increase the verbosity of messages: 1 for normal output, 2 for more verbose output and
```

3. Tạo project laravel: helloworld

- Trong cửa sổ **Windows PowerShell**, chuyển vào thư mục **htdocs** của **xampp**, nếu chưa ở đó, xong nhập lệnh:

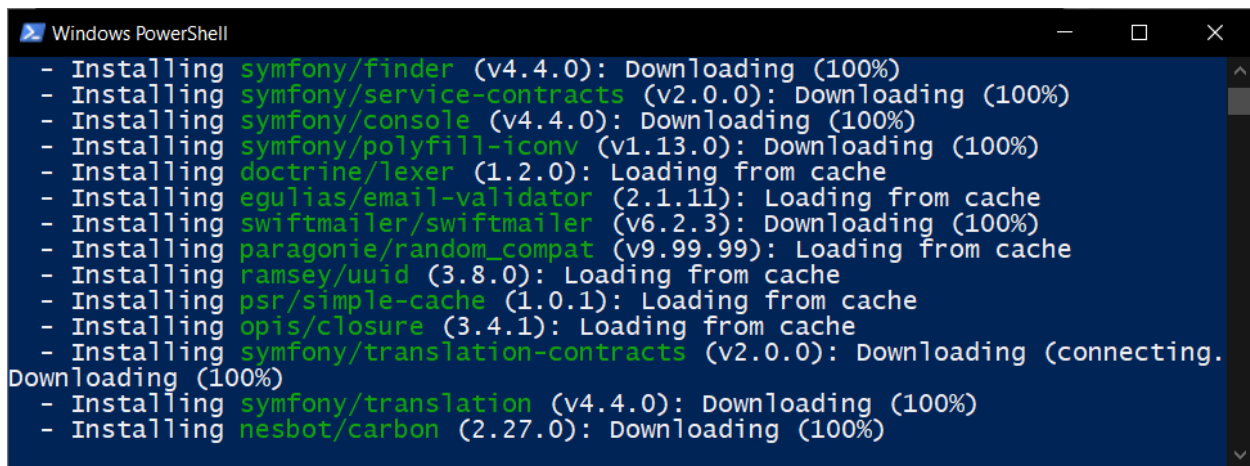
composer create-project laravel/laravel helloworld --prefer-dist



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\dev\xampp\htdocs> composer create-project laravel/laravel helloworld --prefer-dist
```

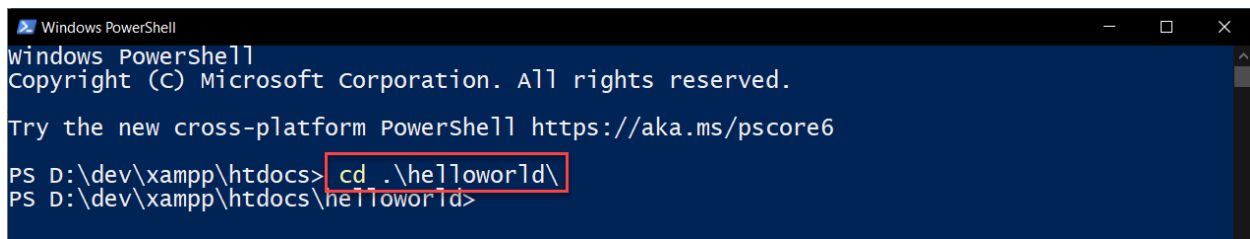


```
Windows PowerShell

- Installing symfony/finder (v4.4.0): Downloading (100%)
- Installing symfony/service-contracts (v2.0.0): Downloading (100%)
- Installing symfony/console (v4.4.0): Downloading (100%)
- Installing symfony/polyfill-iconv (v1.13.0): Downloading (100%)
- Installing doctrine/lexer (1.2.0): Loading from cache
- Installing egulias/email-validator (2.1.11): Loading from cache
- Installing swiftmailer/swiftmailer (v6.2.3): Downloading (100%)
- Installing paragonie/random_compat (v9.99.99): Loading from cache
- Installing ramsey/uuid (3.8.0): Loading from cache
- Installing psr/simple-cache (1.0.1): Loading from cache
- Installing opis/closure (3.4.1): Loading from cache
- Installing symfony/translation-contracts (v2.0.0): Downloading (connecting.
Downloading (100%)
- Installing symfony/translation (v4.4.0): Downloading (100%)
- Installing nesbot/carbon (2.27.0): Downloading (100%)
```

- Sau khi quá trình tạo project kết thúc, thư mục **helloworld** (tên project) sẽ được tạo ra. Chuyển vào thư mục này để làm việc

...\> cd helloworld



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\dev\xampp\htdocs> cd .\helloworld\
PS D:\dev\xampp\htdocs\helloworld>
```

- Chạy thử ứng dụng helloworld. Từ cửa sổ Windows PowerShell, nhập lệnh

...\> php artisan serve

Bài thực hành Laravel số 1

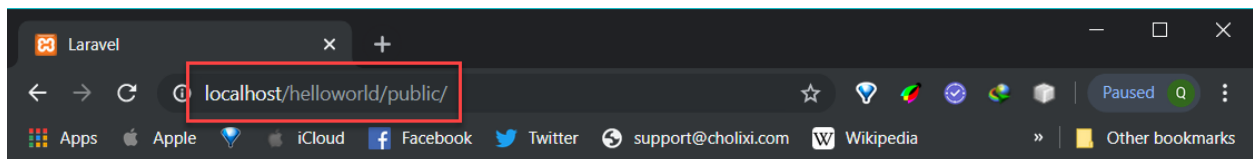
```
Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\dev\xampp\htdocs> cd .\helloworld\
PS D:\dev\xampp\htdocs\helloworld> php artisan serve
```

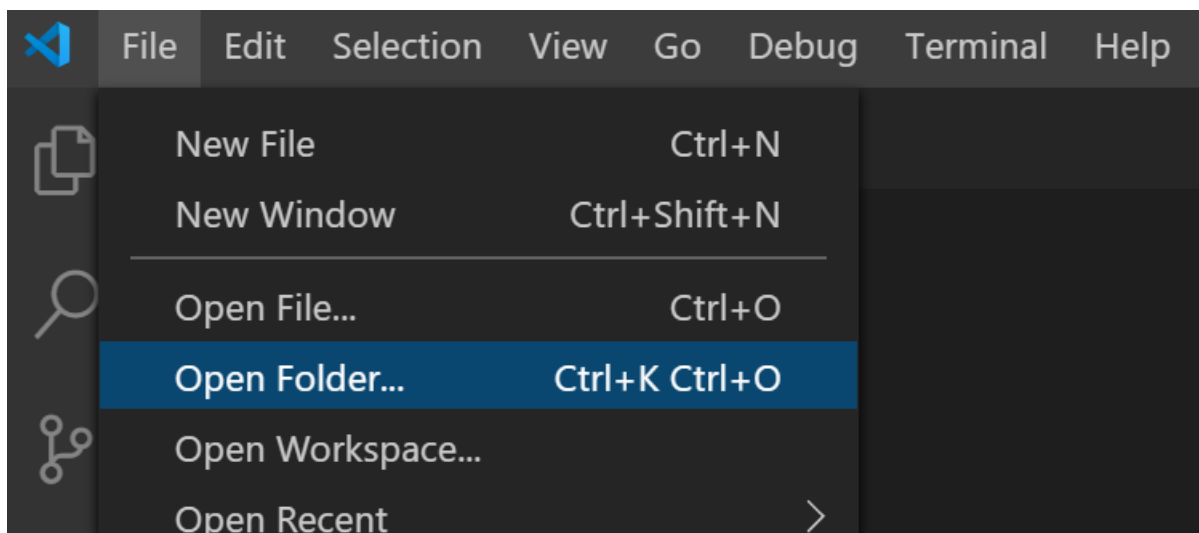
- Mở trình duyệt lên, nhập vào địa chỉ:

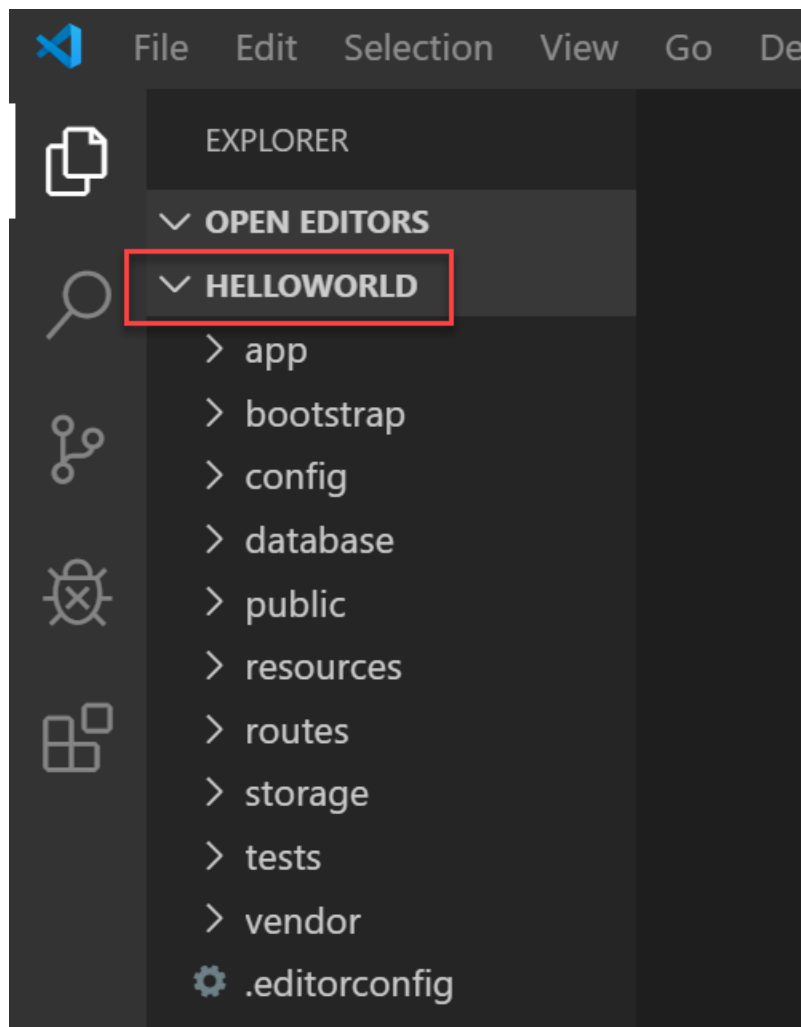
<http://localhost/helloworld/public>



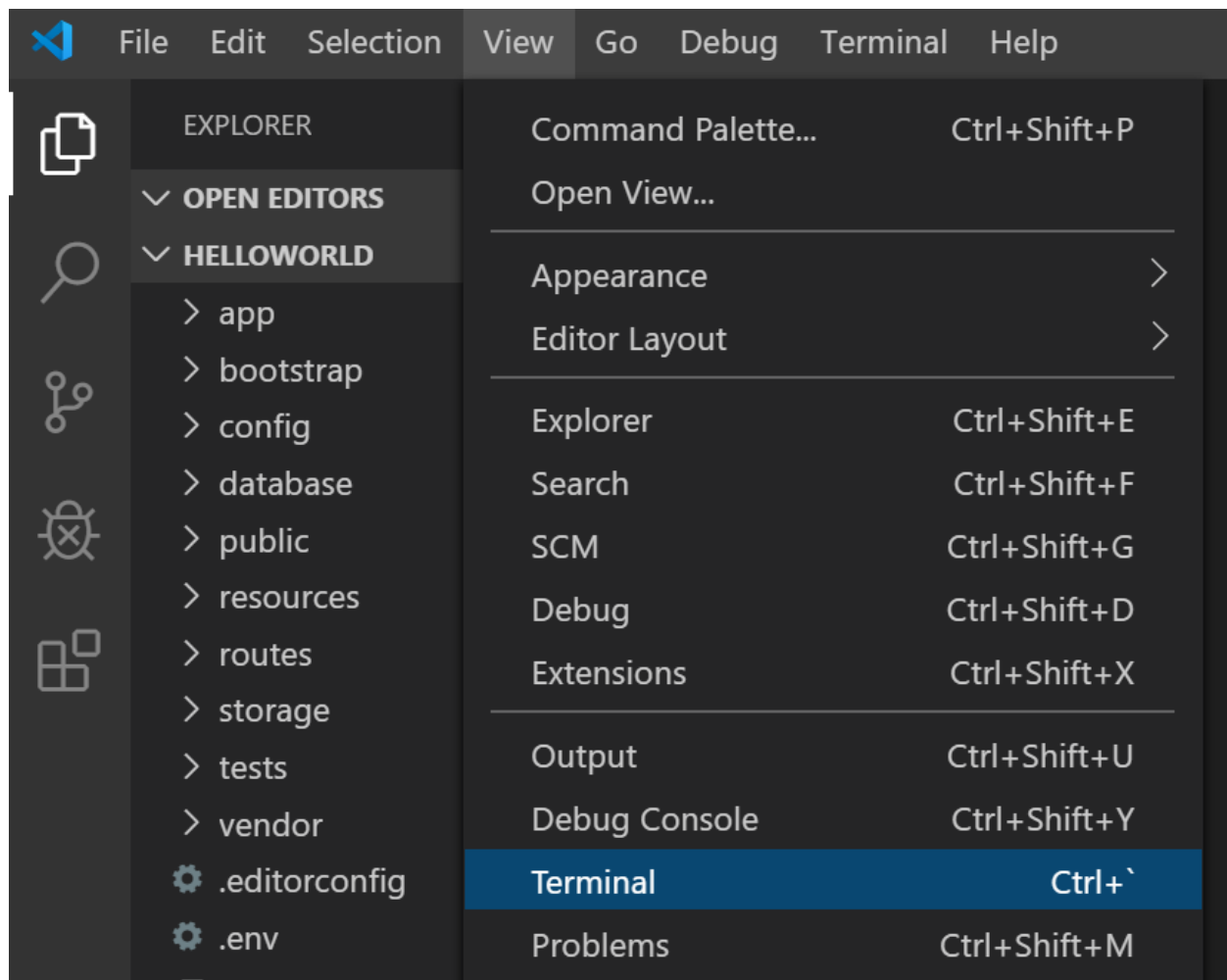
4. Chương trình cộng 2 số

- Mở **Visual Studio Code**
- Mở thư mục **...\htdocs\helloworld** trong Visual Studio Code

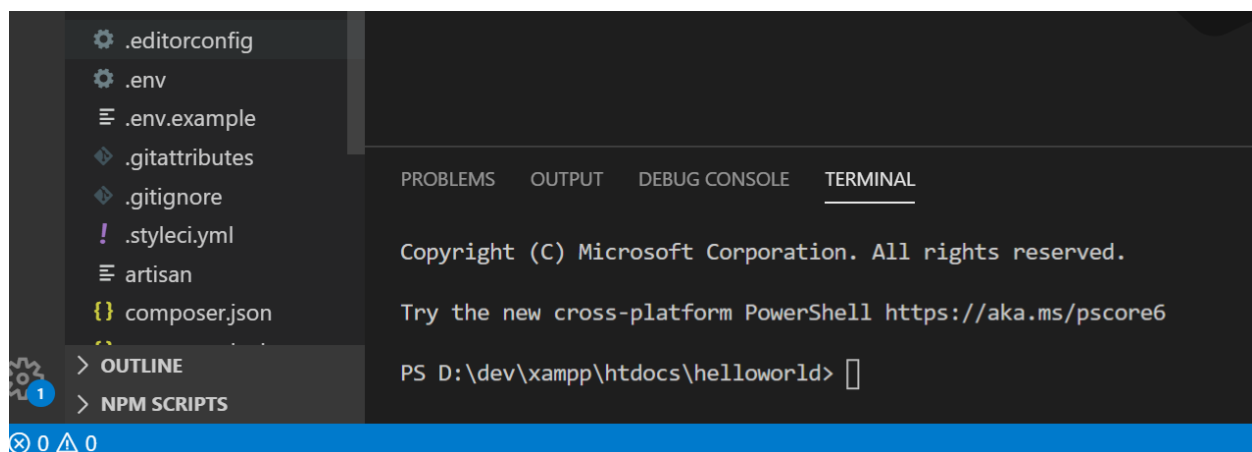




- Trong Visual Studio Code, mở cửa sổ Terminal
 - o Chọn menu View | Terminal

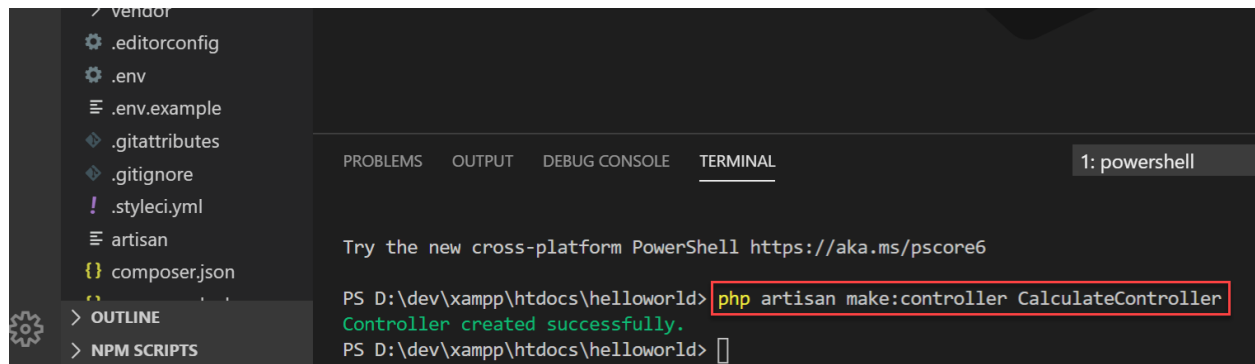


- Kết quả



- Tạo Controller: **CalculateController**
 - o Trong cửa sổ **Terminal**, nhập lệnh:
 - o **php artisan make:controller CalculateController**

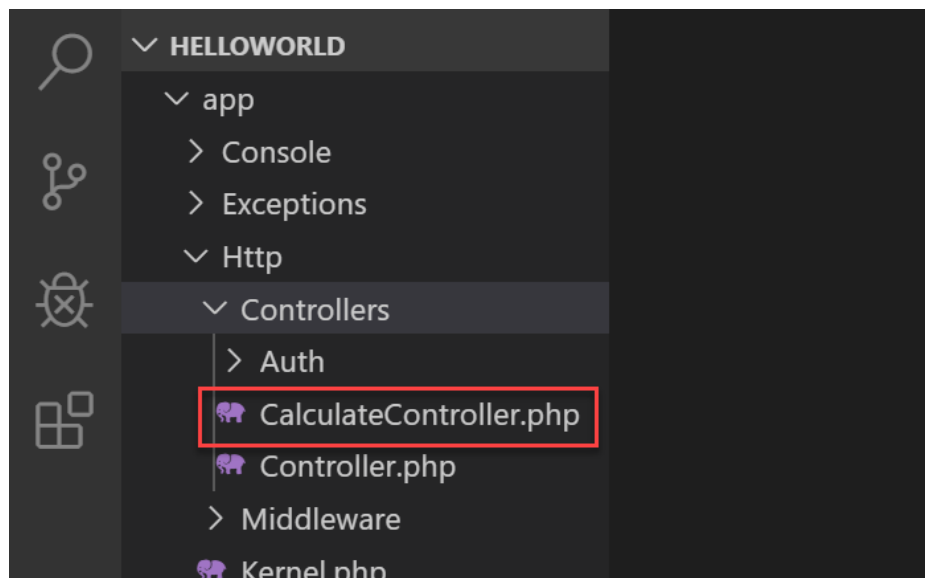
Bài thực hành Laravel số 1



The screenshot shows a PowerShell terminal window in VS Code. The command `php artisan make:controller CalculateController` has been executed, and the output is `Controller created successfully.`. The terminal title is "1: powershell".

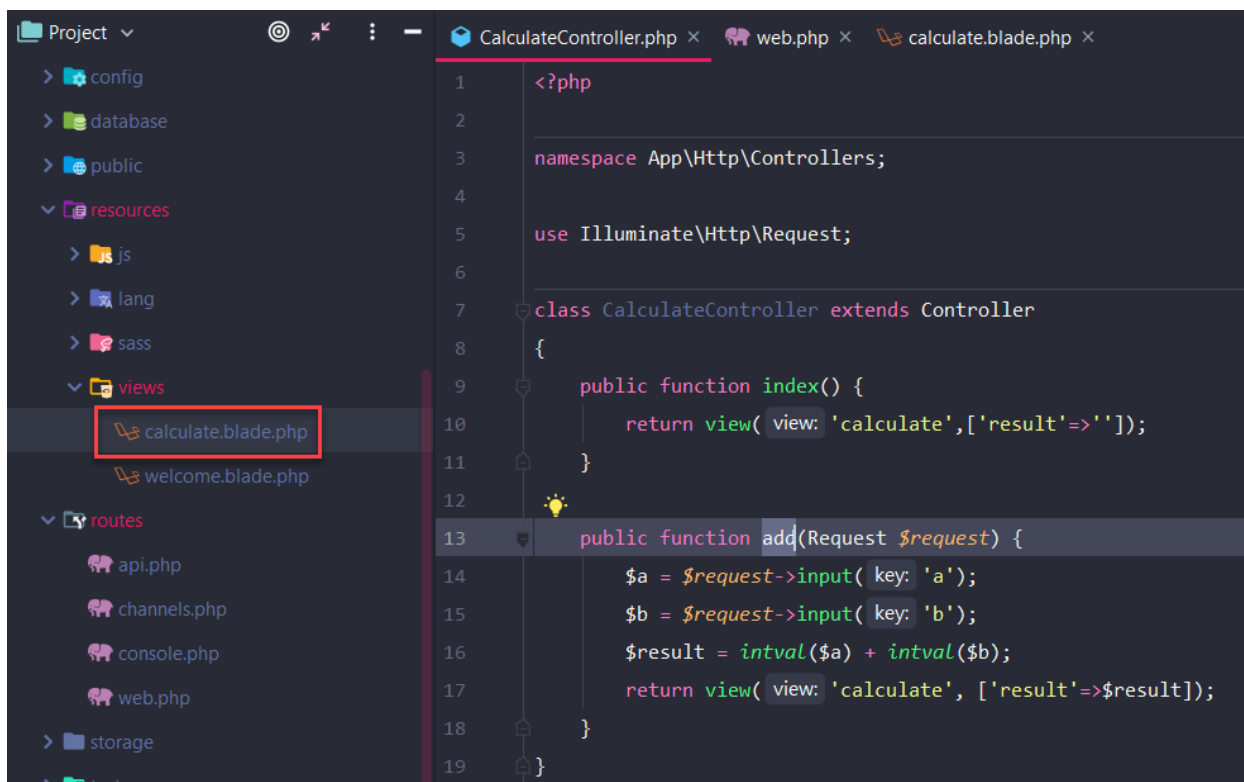
```
PS D:\dev\xampp\htdocs\helloworld> php artisan make:controller CalculateController
Controller created successfully.
PS D:\dev\xampp\htdocs\helloworld>
```

- CalculateController sẽ được tạo ra trong thư mục:
`app\Http\Controllers\CalculateController`



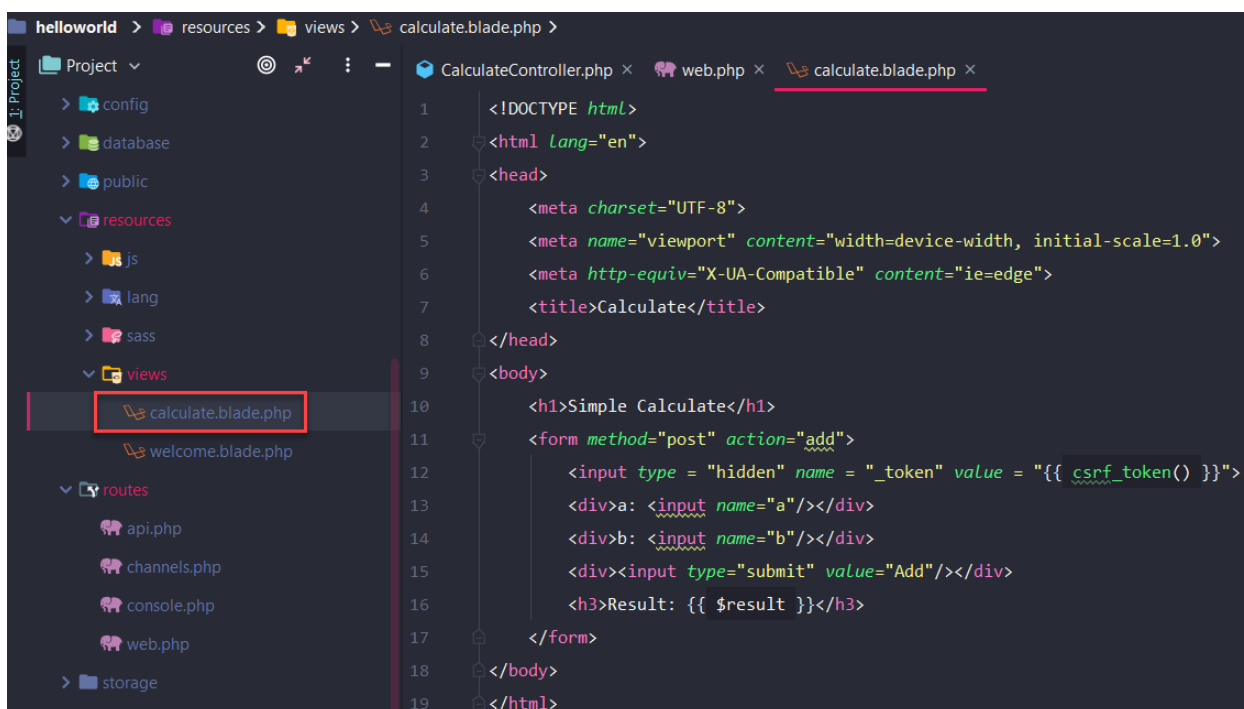
- Mở tập tin `CalculateController` lên, tạo 2 phương thức `index()` và `add()` trong class `CalculateController`

Bài thực hành Laravel số 1



```
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class CalculateController extends Controller
8 {
9     public function index() {
10         return view( view: 'calculate', ['result'=>'']);
11     }
12
13     public function add(Request $request) {
14         $a = $request->input( key: 'a');
15         $b = $request->input( key: 'b');
16         $result = intval($a) + intval($b);
17         return view( view: 'calculate', ['result'=>$result]);
18     }
19 }
```

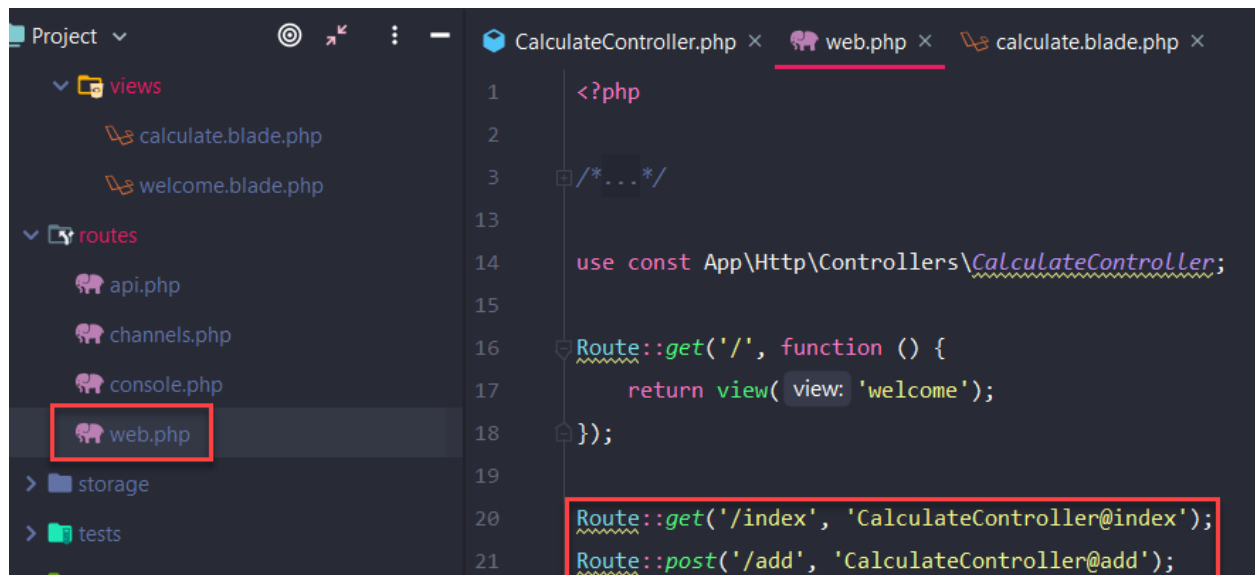
- Trong phương thức `index()`, chúng ta sẽ chuyển đến `view: calculate` khi phương thức `index()` được gọi.
- Mở thư mục `resources\views`, tạo tập tin `calculate.blade.php`
- Mở tập tin `calculate.blade.php`, viết mã như sau:



```
1 <!DOCTYPE html>
2 <html Lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta name="viewport" content="width=device-width, initial-scale=1.0">
6     <meta http-equiv="X-UA-Compatible" content="ie=edge">
7     <title>Calculate</title>
8 </head>
9 <body>
10     <h1>Simple Calculate</h1>
11     <form method="post" action="add">
12         <input type="hidden" name="_token" value="{{ csrf_token() }}">
13         <div>a: <input name="a"/></div>
14         <div>b: <input name="b"/></div>
15         <div><input type="submit" value="Add"/></div>
16         <h3>Result: {{ $result }}</h3>
17     </form>
18 </body>
19 </html>
```

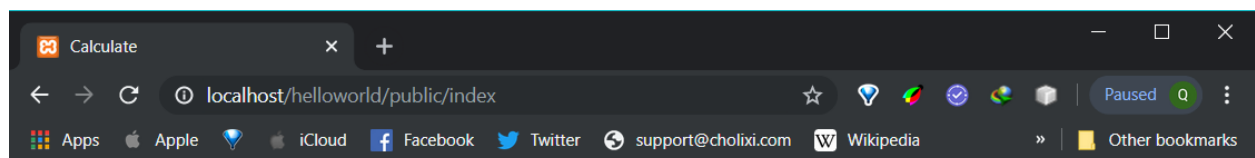
5. Khai báo route

- Mở tập tin routes\web.php, viết mã như sau:



```
1 <?php
2
3 /*...*/
13
14 use const App\Http\Controllers\CalculateController;
15
16 Route::get('/', function () {
17     return view( view: 'welcome');
18 });
19
20 Route::get('/index', 'CalculateController@index');
21 Route::post('/add', 'CalculateController@add');
```

- Vào trình duyệt, nhập địa chỉ: <http://localhost/helloworld/public/index>



Simple Calculate

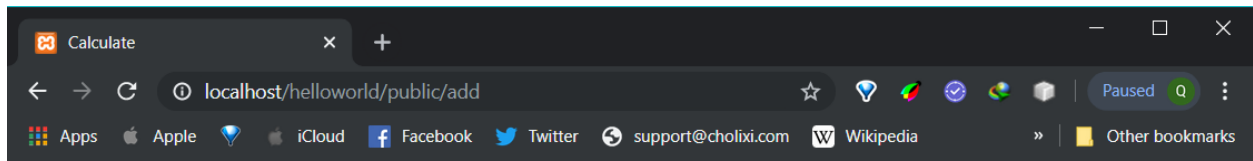
a:

b:

Result:

- Nhập giá trị cho 2 ô a, b, xong chọn nút Add, kết quả

Bài thực hành Laravel số 1



Simple Calculate

a:

b:

Result: 7