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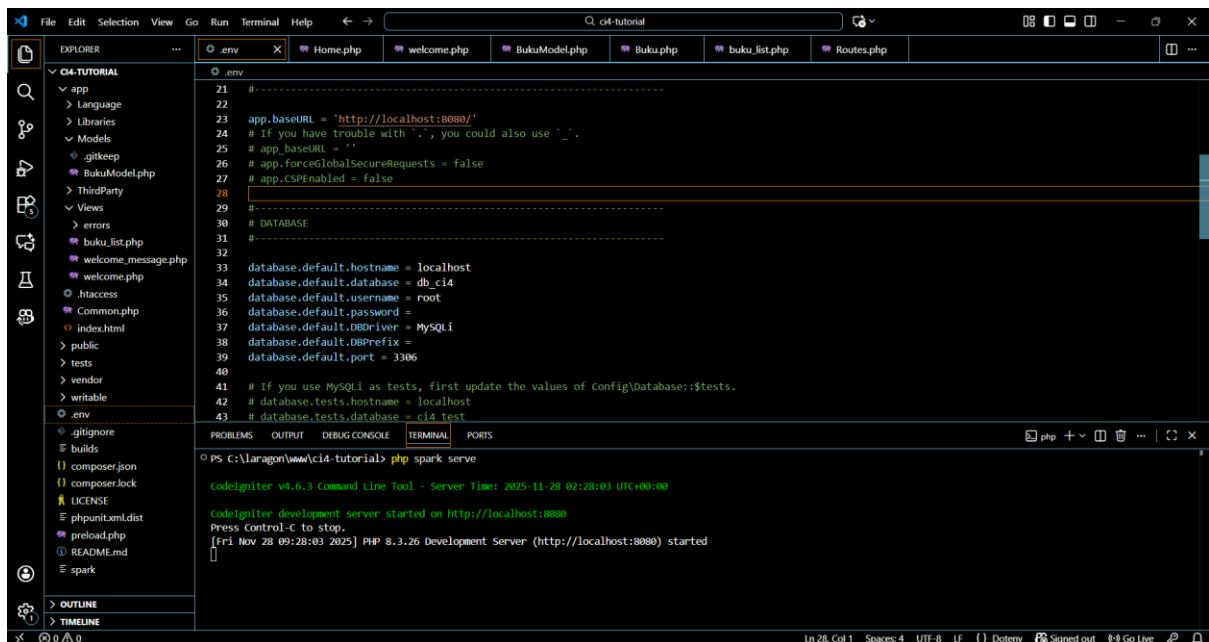
Tugas 10 Framework Pemrograman Berbasis Web

Instalasi CI4 menggunakan composer lewat terminal cmd laragon



```
C:\laragon\www
> composer create-project codeigniter4/appstarter ci4-tutorial
Creating a "codeigniter4/appstarter" project at "../ci4-tutorial"
Installing codeigniter4/appstarter (v4.6.3)
- Downloading codeigniter4/appstarter (v4.6.3): Extracting archive
Created project in C:\laragon\www\ci4-tutorial
Loading composer repositories with package information
Updating dependencies
Lock file operations: 33 installs, 0 updates, 0 removals
- Locking codeigniter4/framework (v4.6.3)
- Locking fakerphp/faker (v1.24.1)
- Locking laminas/laminas-escaper (2.18.0)
- Locking nikic/php-parser (v5.1.2)
- Locking myclabs/deep-copy (1.13.4)
- Locking nikic/php-parser (v5.6.2)
- Locking phar-io/manifest (2.0.4)
- Locking phar-io/version (3.2.1)
- Locking phpunit/php-code-coverage (10.1.16)
- Locking phpunit/php-file-iterator (4.1.0)
- Locking phpunit/php-invoker (4.0.0)
- Locking phpunit/php-text-template (3.0.1)
- Locking phpunit/php-timer (6.0.0)
- Locking phpunit/phpunit (10.5.58)
- Locking psr/container (2.0.2)
- Locking psr/log (3.0.2)
- Locking sebastian/cli-parser (2.0.1)
- Locking sebastian/code-unit (2.0.0)
- Locking sebastian/code-unit-reverse-lookup (3.0.0)
- Locking sebastian/comparator (5.0.4)
- Locking sebastian/complexity (3.2.0)
- Locking sebastian/diff (5.1.1)
- Locking sebastian/environment (6.1.0)
- Locking sebastian/exporter (5.1.4)
- Locking sebastian/global-state (6.0.2)
- Locking sebastian/lines-of-code (2.0.2)
- Locking sebastian/object-enumerator (5.0.0)
- Locking sebastian/object-reflector (3.0.0)
- Locking sebastian/recursion-context (5.0.1)
- Locking sebastian/type (4.0.0)
- Locking sebastian/version (4.0.1)
- Locking symfony/deprecation-contracts (v3.6.0)
- Locking theseer/tokenizer (1.3.1)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 33 installs, 0 updates, 0 removals
- Downloading psr/log (3.0.2)
```

File .env dan menjalankan server CI4 di vscode



```
File Edit Selection View Go Run Terminal Help
C:\laragon\www\ci4-tutorial

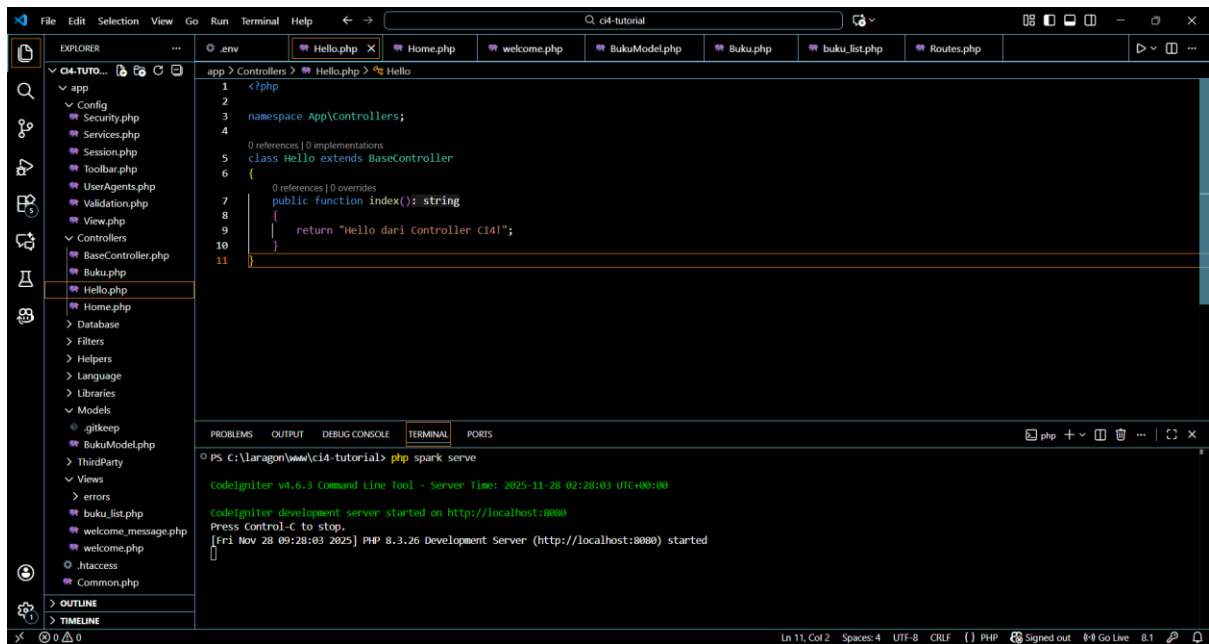
EXPLORER
- CI4-TUTORIAL
  - app
    - Language
    - Libraries
    - Models
    - .gitkeep
    - BukuModel.php
    - ThirdParty
    - Views
    - errors
    - buku_list.php
    - welcome_message.php
    - welcome.php
    - .htaccess
    - Common.php
    - index.html
    - public
    - tests
    - vendor
    - writable
    - .env
  - .gitignore
  - builds
  - composer.json
  - composer.lock
  - LICENSE
  - phpunit.xml.dist
  - preload.php
  - README.md
  - spark

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\laragon\www\ci4-tutorial> php spark serve

CodeIgniter v4.6.3 Command Line Tool - Server Time: 2025-11-28 02:28:03 UTC+00:00

CodeIgniter development server started on http://localhost:8080
Press Control-C to stop.
[Fri Nov 28 09:28:03 2025] PHP 8.3.26 Development Server (http://localhost:8080) started
```

Membuat controller Hello

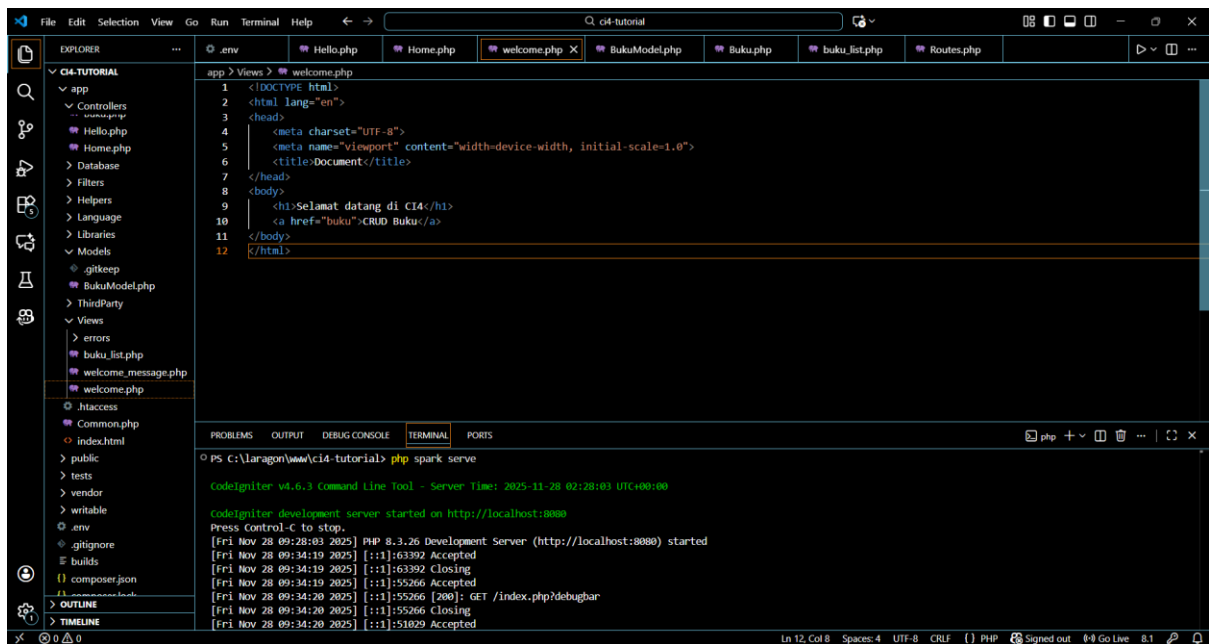


The screenshot shows the Visual Studio Code editor with the following components:

- EXPLORER:** The file explorer on the left shows the project structure. The 'Controllers' folder is expanded, and 'Hello.php' is selected.
- EDITOR:** The main editor area shows the code for 'Hello.php':

```
1 <?php
2
3 namespace App\Controllers;
4
5
6 class Hello extends BaseController
7 {
8     public function index(): string
9     {
10         return "Hello dari Controller CI4!";
11     }
12 }
```
- TERMINAL:** The terminal at the bottom shows the command 'php spark serve' being executed. The output indicates that the CodeIgniter development server is running on http://localhost:8080.

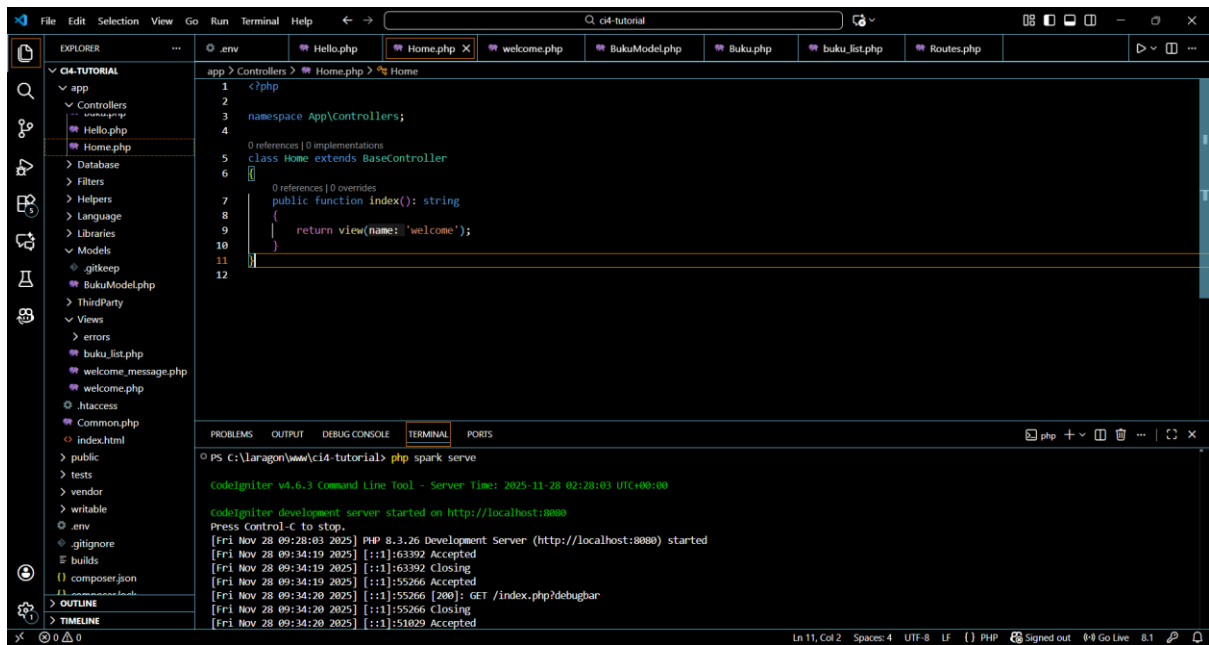
Membuat welcome.php, controller Home, dan routes



The screenshot shows the Visual Studio Code editor with the following components:

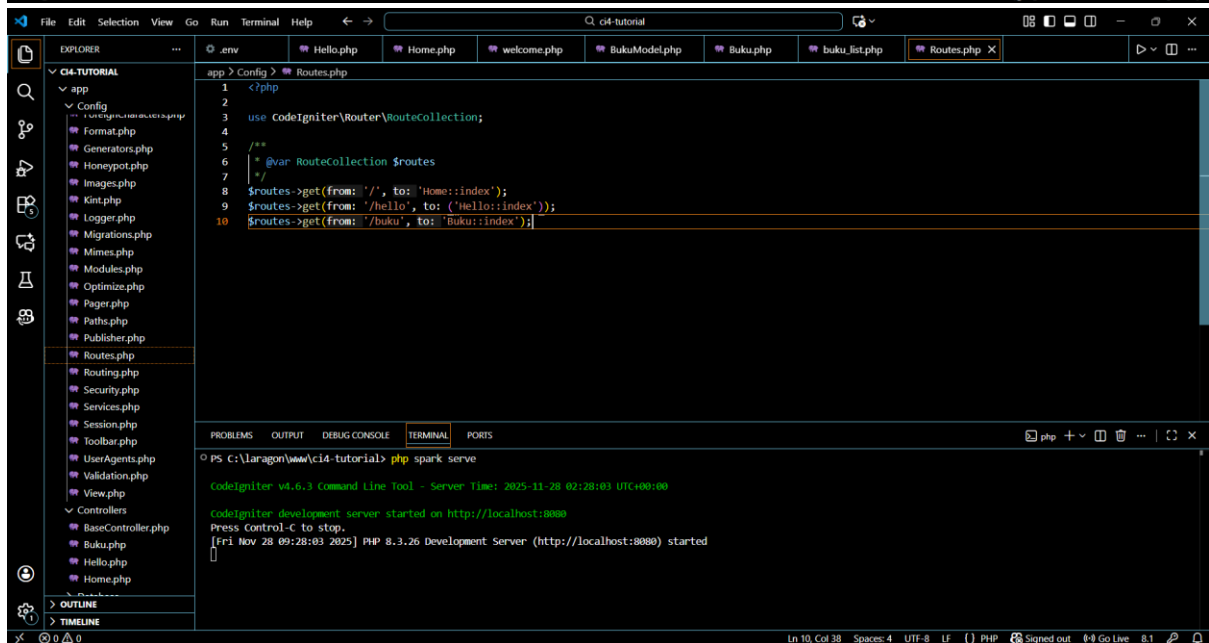
- EXPLORER:** The file explorer on the left shows the project structure. The 'Views' folder is expanded, and 'welcome.php' is selected.
- EDITOR:** The main editor area shows the code for 'welcome.php':

```
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     <title>Document</title>
7 </head>
8 <body>
9     <h1>Selamat datang di CI4</h1>
10     <a href="buku">CRUD Buku</a>
11 </body>
12 </html>
```
- TERMINAL:** The terminal at the bottom shows the command 'php spark serve' being executed. The output indicates that the CodeIgniter development server is running on http://localhost:8080.



```
1 <?php
2
3 namespace App\Controllers;
4
5 class Home extends BaseController
6 {
7     public function index(): string
8     {
9         return view('welcome');
10    }
11 }
12
```

```
PS C:\laragon\www\c14-tutorial> php spark serve
CodeIgniter v4.6.3 Command Line Tool - Server Time: 2025-11-28 02:28:03 UTC+00:00
CodeIgniter development server started on http://localhost:8080
Press Control-C to stop.
[Fri Nov 28 09:28:03 2025] PHP 8.3.26 Development Server (http://localhost:8080) started
[Fri Nov 28 09:34:19 2025] [::1]:63392 Accepted
[Fri Nov 28 09:34:19 2025] [::1]:63392 Closing
[Fri Nov 28 09:34:19 2025] [::1]:55266 Accepted
[Fri Nov 28 09:34:20 2025] [::1]:55266 [200]: GET /index.php/debuggar
[Fri Nov 28 09:34:20 2025] [::1]:55266 Closing
[Fri Nov 28 09:34:20 2025] [::1]:51029 Accepted
```



```
1 <?php
2
3 use CodeIgniter\Router\RouteCollection;
4
5 /**
6  * @var RouteCollection $routes
7  */
8 $routes->get(from: '/', to: 'Home::index');
9 $routes->get(from: '/hello', to: ('Hello::index'));
10 $routes->get(from: '/buku', to: 'Buku::index');
```

```
PS C:\laragon\www\c14-tutorial> php spark serve
CodeIgniter v4.6.3 Command Line Tool - Server Time: 2025-11-28 02:28:03 UTC+00:00
CodeIgniter development server started on http://localhost:8080
Press Control-C to stop.
[Fri Nov 28 09:28:03 2025] PHP 8.3.26 Development Server (http://localhost:8080) started
```

Membuat BukuModel.php, Buku.php, dan buku_list.php

```
1 <?php
2 namespace App\Controllers;
3 use App\Models\BukuModel;
4
5 0 references | 0 implementations
6 class Buku extends BaseController
7 {
8     0 references | 0 overrides
9     public function index(): string
10     {
11         $model = new BukuModel();
12         $data['buku'] = $model->findAll();
13         return view(name: 'buku_list', data: $data);
14     }
15 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\laragon\www\c14-tutorial> php spark serve

[Fri Nov 28 09:40:12 2025] [::]:53546 Accepted

[Fri Nov 28 09:40:12 2025] [::]:53546 [200]: GET /index.php/debugbar_time=1764297612.156078

[Fri Nov 28 09:40:12 2025] [::]:53546 Closing

[Fri Nov 28 09:40:22 2025] [::]:50422 Accepted

[Fri Nov 28 09:40:22 2025] [::]:53376 Accepted

[Fri Nov 28 09:40:47 2025] [::]:50422 Closing

[Fri Nov 28 09:40:47 2025] [::]:53376 [200]: GET /index.php/debugbar

[Fri Nov 28 09:40:47 2025] [::]:53376 Closing

[Fri Nov 28 09:40:48 2025] [::]:65468 Accepted

[Fri Nov 28 09:40:48 2025] [::]:65468 [200]: GET /index.php/debugbar_time=1764297647.707471

[Fri Nov 28 09:40:48 2025] [::]:65468 Closing

```
1 <?php
2 namespace App\Models;
3 use CodeIgniter\Model;
4
5 2 references | 0 implementations
6 class BukuModel extends Model
7 {
8     0 references
9     protected $table = 'buku';
10     0 references
11     protected $allowedFields = ['judul', 'penulis'];
12 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\laragon\www\c14-tutorial> php spark serve

[Fri Nov 28 09:40:12 2025] [::]:53546 Accepted

[Fri Nov 28 09:40:12 2025] [::]:53546 [200]: GET /index.php/debugbar_time=1764297612.156078

[Fri Nov 28 09:40:12 2025] [::]:53546 Closing

[Fri Nov 28 09:40:22 2025] [::]:50422 Accepted

[Fri Nov 28 09:40:22 2025] [::]:53376 Accepted

[Fri Nov 28 09:40:47 2025] [::]:50422 Closing

[Fri Nov 28 09:40:47 2025] [::]:53376 [200]: GET /index.php/debugbar

[Fri Nov 28 09:40:47 2025] [::]:53376 Closing

[Fri Nov 28 09:40:48 2025] [::]:65468 Accepted

[Fri Nov 28 09:40:48 2025] [::]:65468 [200]: GET /index.php/debugbar_time=1764297647.707471

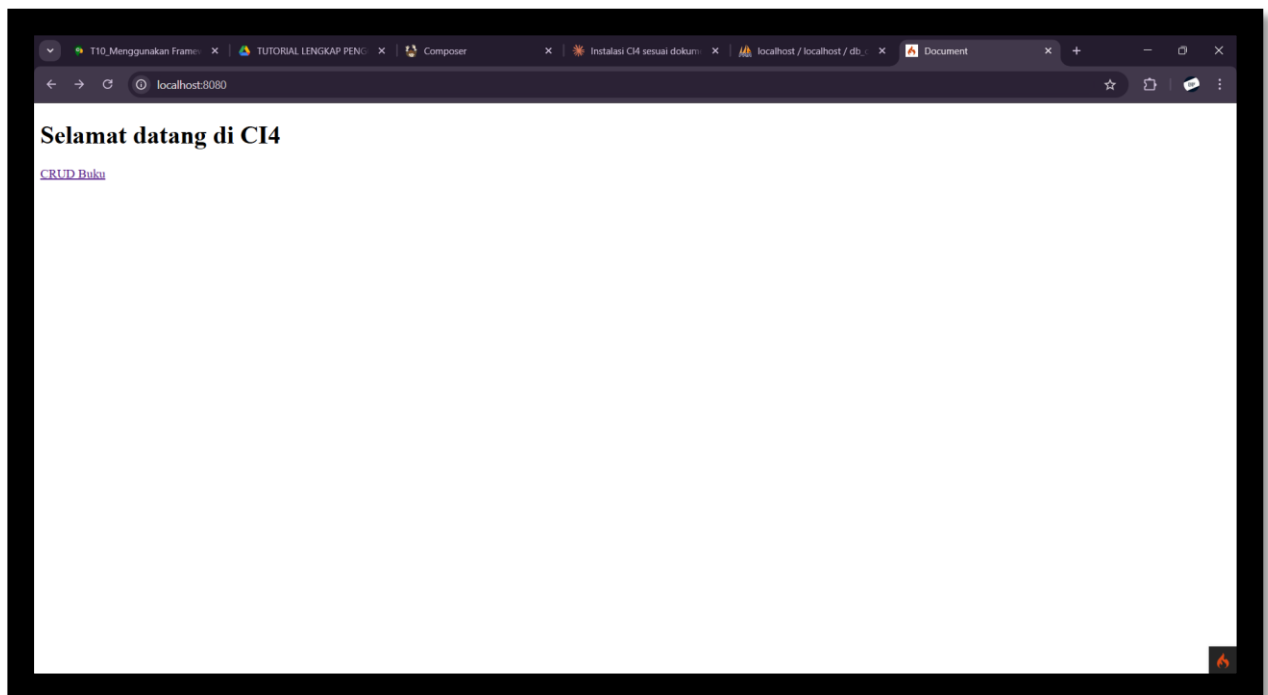
[Fri Nov 28 09:40:48 2025] [::]:65468 Closing

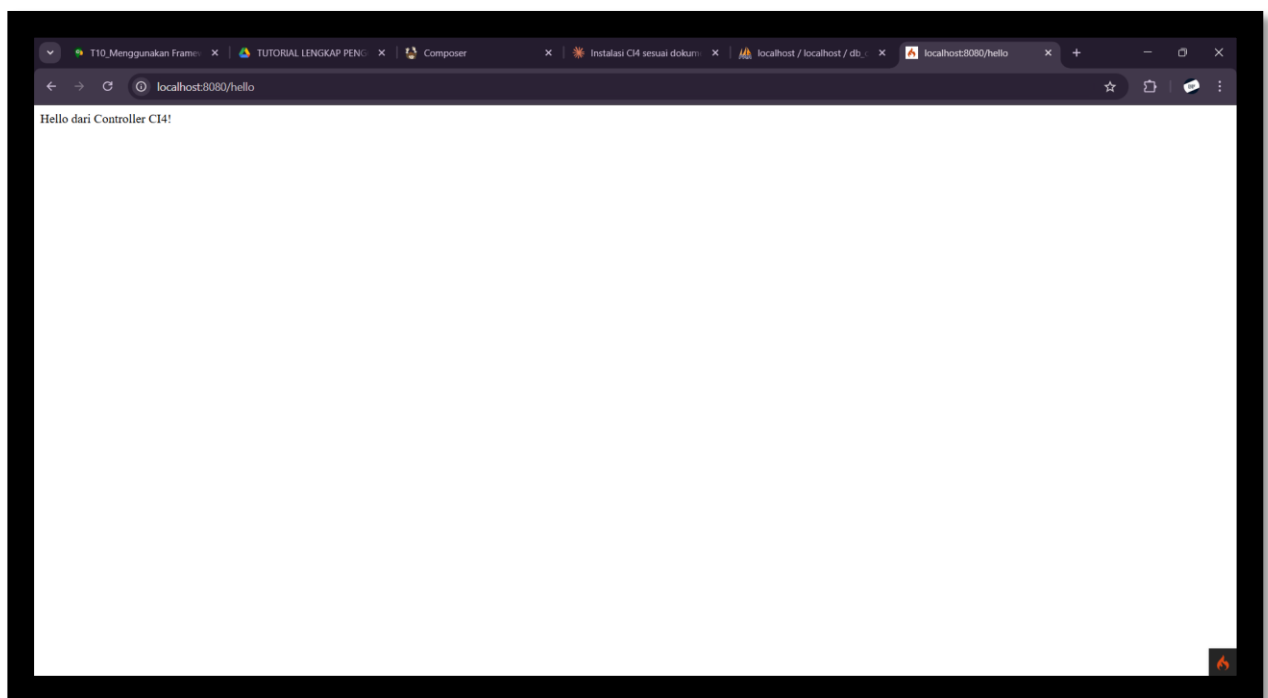
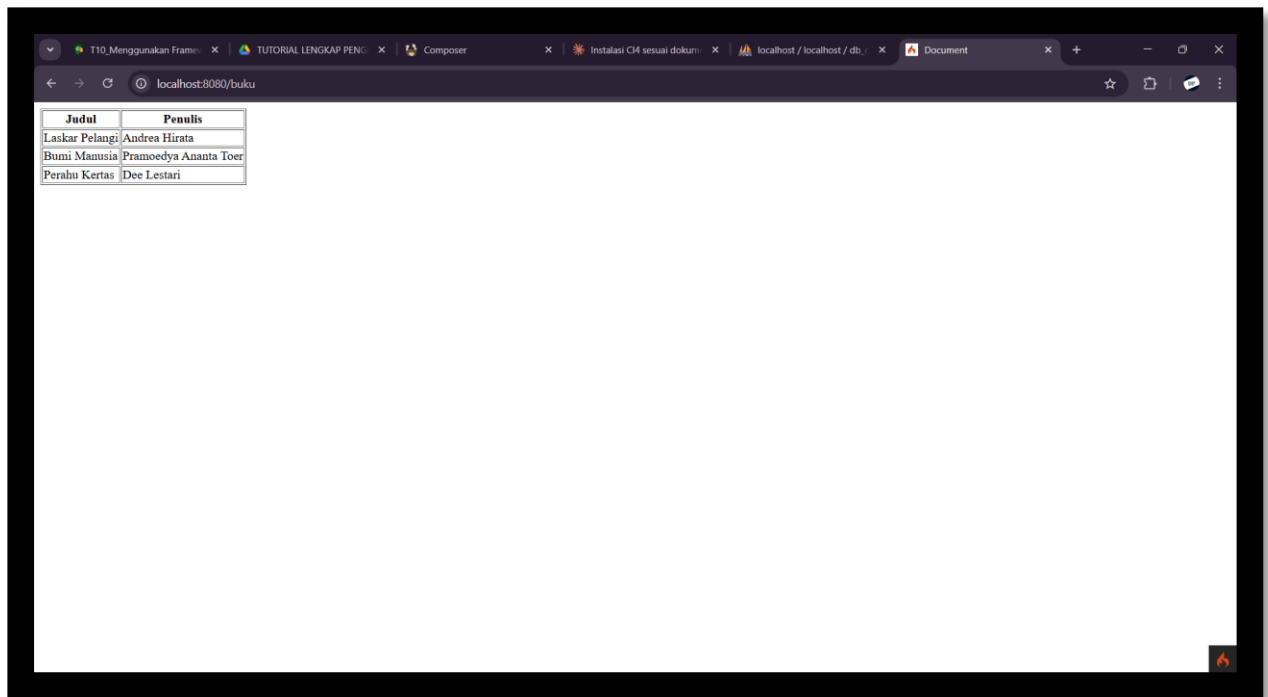
The image shows a Visual Studio Code editor window with the file `buku_list.php` open. The code is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Document</title>
8 </head>
9
10 <body>
11   <table border="1">
12     <tr>
13       <th>Judul</th>
14       <th>Penulis</th>
15     </tr>
16
17     <?php foreach ($buku as $b): ?>
18       <tr>
19         <td><?=$b['judul'] ?></td>
20         <td><?=$b['penulis'] ?></td>
21       </tr>
22     <?php endforeach; ?>
23   </table>
```

The terminal at the bottom shows the output of the `php spark serve` command, indicating that the server is running on `localhost:8080`.

Hasil run di localhost:8080





**Mohon maaf tidak pakai css karena waktunya mepet*