Installing Laravel & Visual Studio Code

Part 1:   Laravel Installation

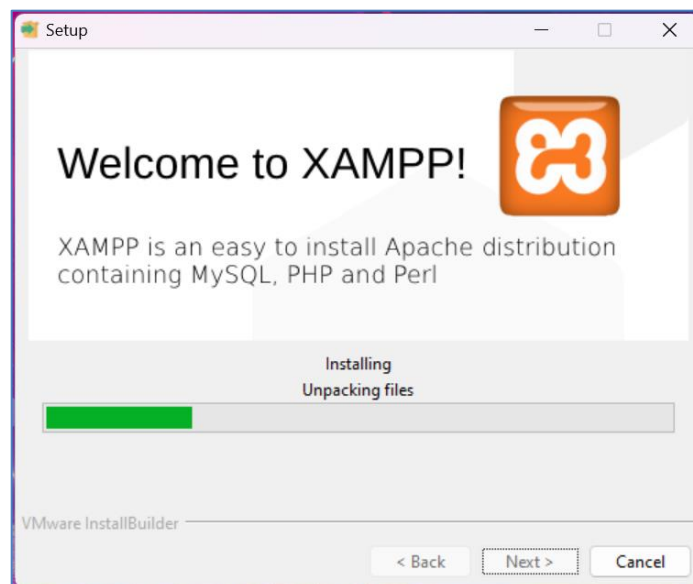### STEP 1:   INSTALL XAMPP

Latest Laravel version depends on the PHP version which is automatically installed during XAMPP installation.

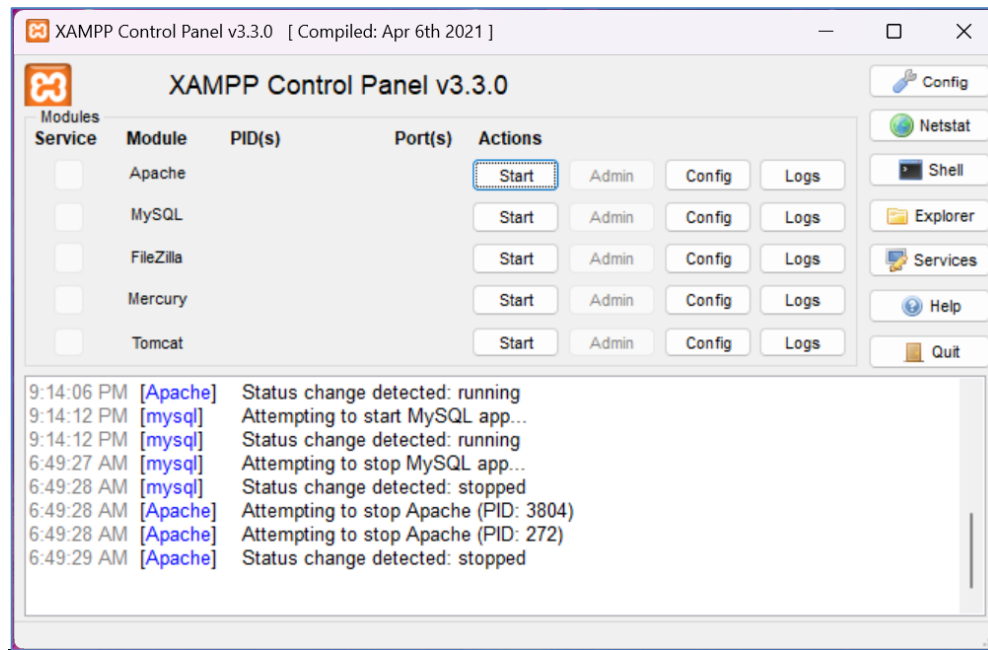URL: https://www.apachefriends.org

a) To download, click **XAMPP for Windows**

b) After downloading XAMPP, open the setup, press **Next** button to start installation.
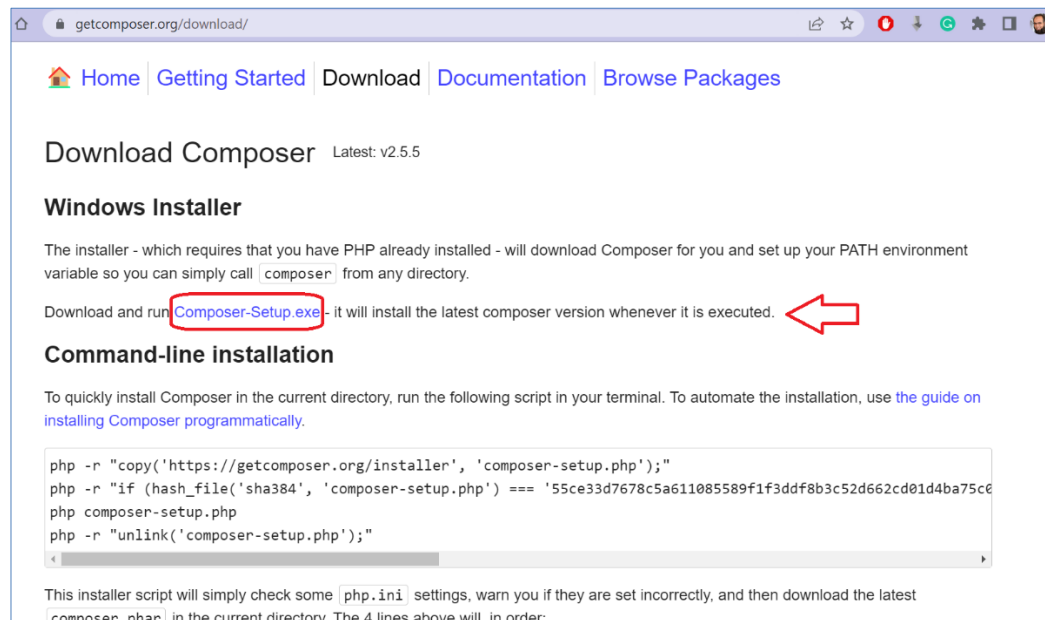
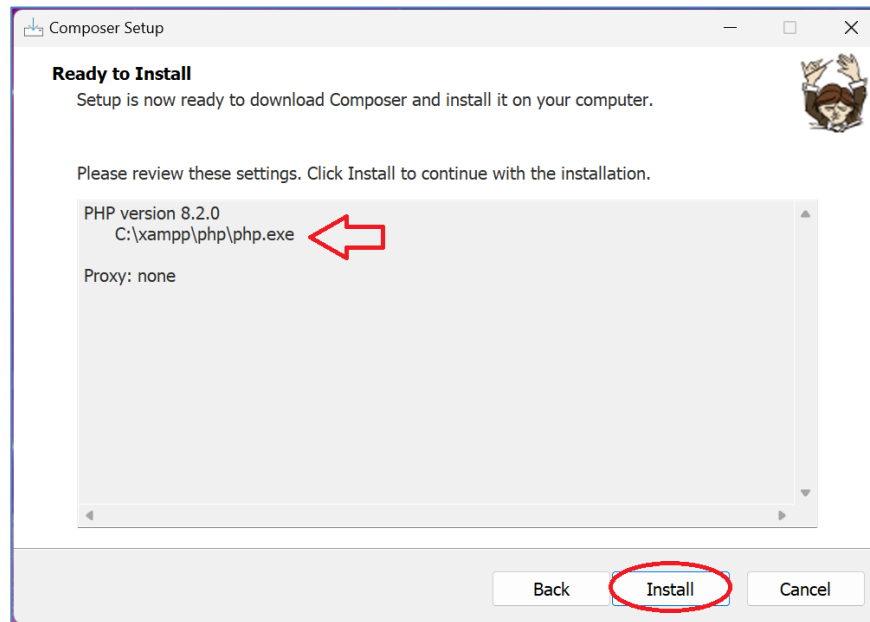c) After successful installation, XAMPP Control Panel would look like below.

STEP 2:   INSTALL COMPOSER PROGRAM

Laravel needs composer software to manage different extensions.

URL: https://getcomposer.org/download/

d) Run **composer.exe** after downloading. During installation, if you are prompted for php.exe
    path, its address in your system is **xampp/php** by default.

e) Once composer has been installed, test it by typing the command **composer** in the command
    prompt (cmd). It will display the composer version which is **red rectangle** below.
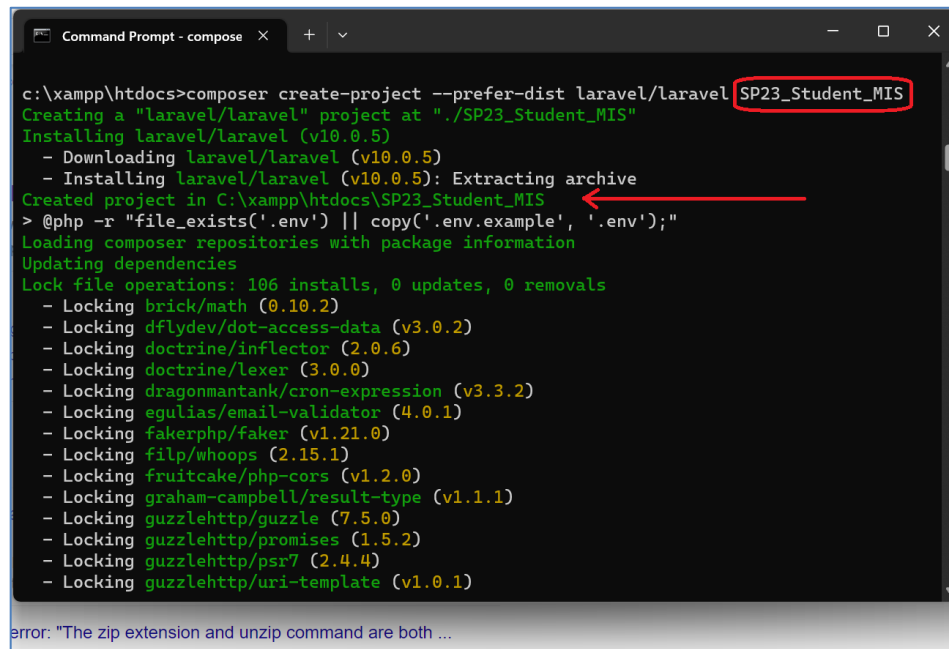
STEP 3:   INSTALL LARAVEL (LOCALLY / PROJECT-WISE)

In global installation, Laravel is only installed once and then it is used for each new Project. In local installation, Laravel is installed for each new Project. Use the following URL to understand local and global installation of Laravel.

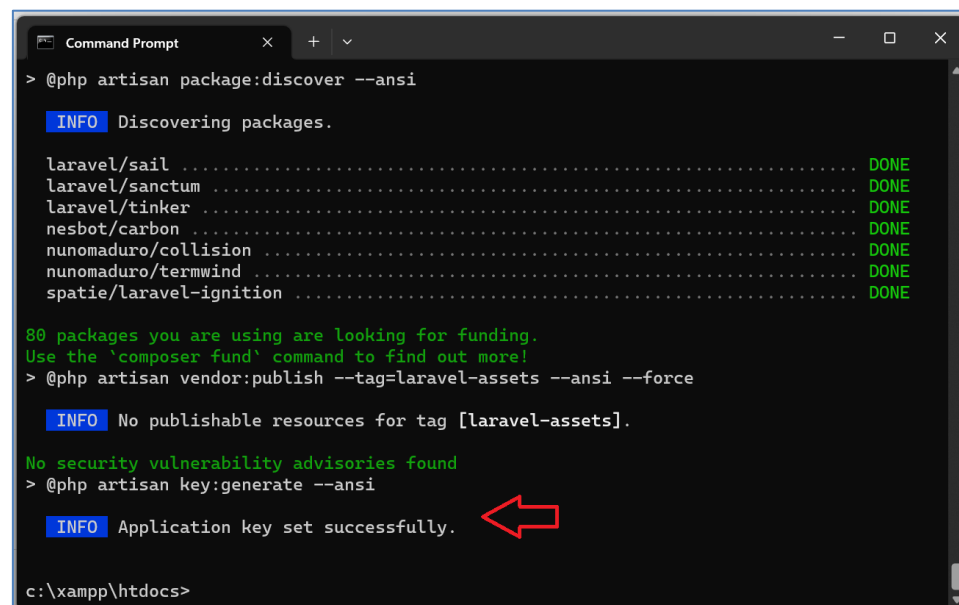URL: https://laravel.com/docs/10.x/installation

a)   Type the following commands in **htdocs** folder to install Laravel Project, *SP23_Student_MIS*

composer create-project --prefer-dist laravel/laravel SP23_Student_MIS

```
c:\xampp\htdocs>composer create-project --prefer-dist laravel/laravel SP23_Student_MIS
Creating a "laravel/laravel" project at "./SP23_Student_MIS"
Installing laravel/laravel (v10.0.5)
  - Downloading laravel/laravel (v10.0.5)
  - Installing laravel/laravel (v10.0.5): Extracting archive
Created project in C:\xampp\htdocs\SP23_Student_MIS
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 106 installs, 0 updates, 0 removals
  - Locking brick/math (0.10.2)
  - Locking dflydev/dot-access-data (v3.0.2)
  - Locking doctrine/inflector (2.0.6)
  - Locking doctrine/lexer (3.0.0)
  - Locking dragonmantank/cron-expression (v3.3.2)
  - Locking egulias/email-validator (4.0.1)
  - Locking fakerphp/faker (v1.21.0)
  - Locking filp/whoops (2.15.1)
  - Locking fruitcake/php-cors (v1.2.0)
  - Locking graham-campbell/result-type (v1.1.1)
  - Locking guzzlehttp/guzzle (7.5.0)
  - Locking guzzlehttp/promises (1.5.2)
  - Locking guzzlehttp/psr7 (2.4.4)
  - Locking guzzlehttp/uri-template (v1.0.1)

error: "The zip extension and unzip command are both ...
```

b)   After few minutes, Laravel will be installed successfully as shown below.

```
> @php artisan package:discover --ansi

   INFO  Discovering packages.

  laravel/sail ............................................................. DONE
  laravel/sanctum .......................................................... DONE
  laravel/tinker ........................................................... DONE
  nesbot/carbon ............................................................ DONE
  nunomaduro/collision ..................................................... DONE
  nunomaduro/termwind ...................................................... DONE
  spatie/laravel-ignition .................................................. DONE

80 packages you are using are looking for funding.
Use the `composer fund` command to find out more!
> @php artisan vendor:publish --tag=laravel-assets --ansi --force

   INFO  No publishable resources for tag [laravel-assets].

No security vulnerability advisories found
> @php artisan key:generate --ansi

   INFO  Application key set successfully.

c:\xampp\htdocs>
```
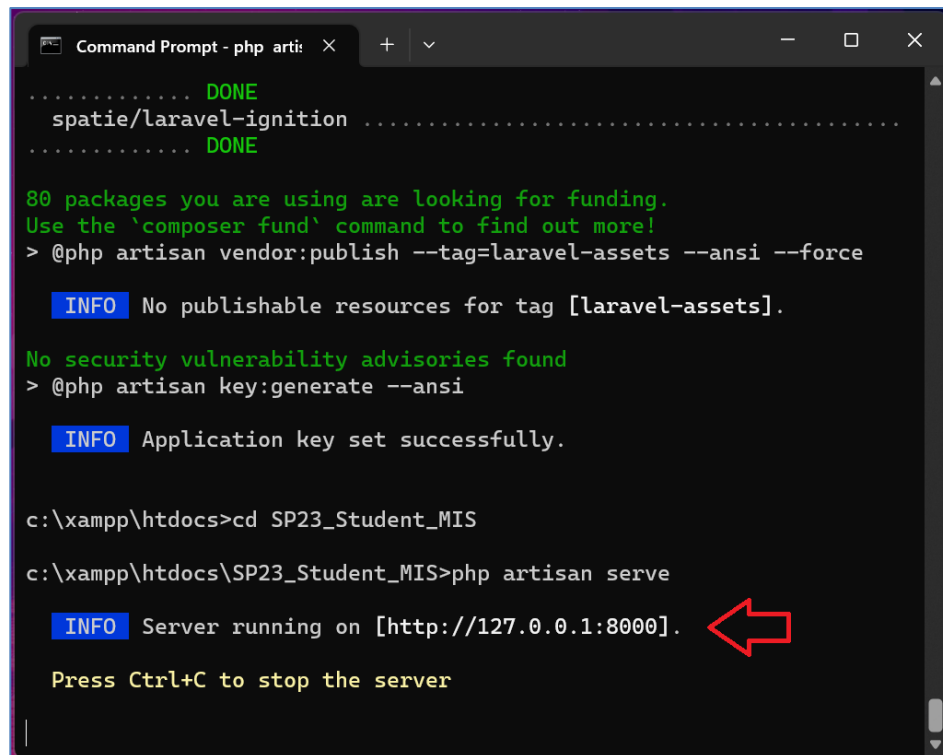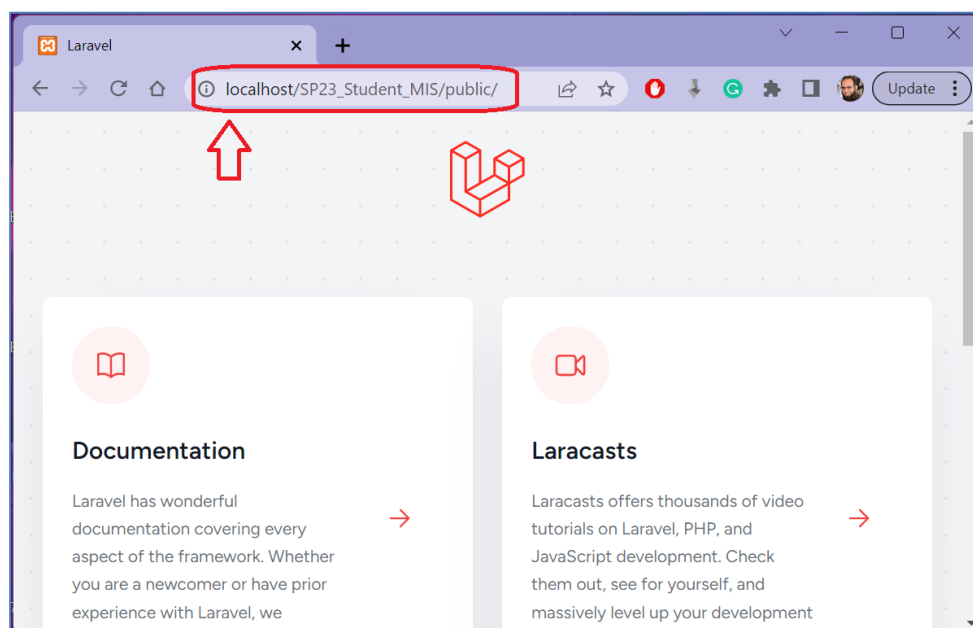
c) Laravel has been successfully installed in the project folder **SP23_Student_MIS**

d) After installation, go the SP23_Student_MIS folder to start the PHP development server.

php artisan serve

e) Type one of the following TWO URLs in the browser to start your Laravel application.

1. http://127.0.0.1:8000
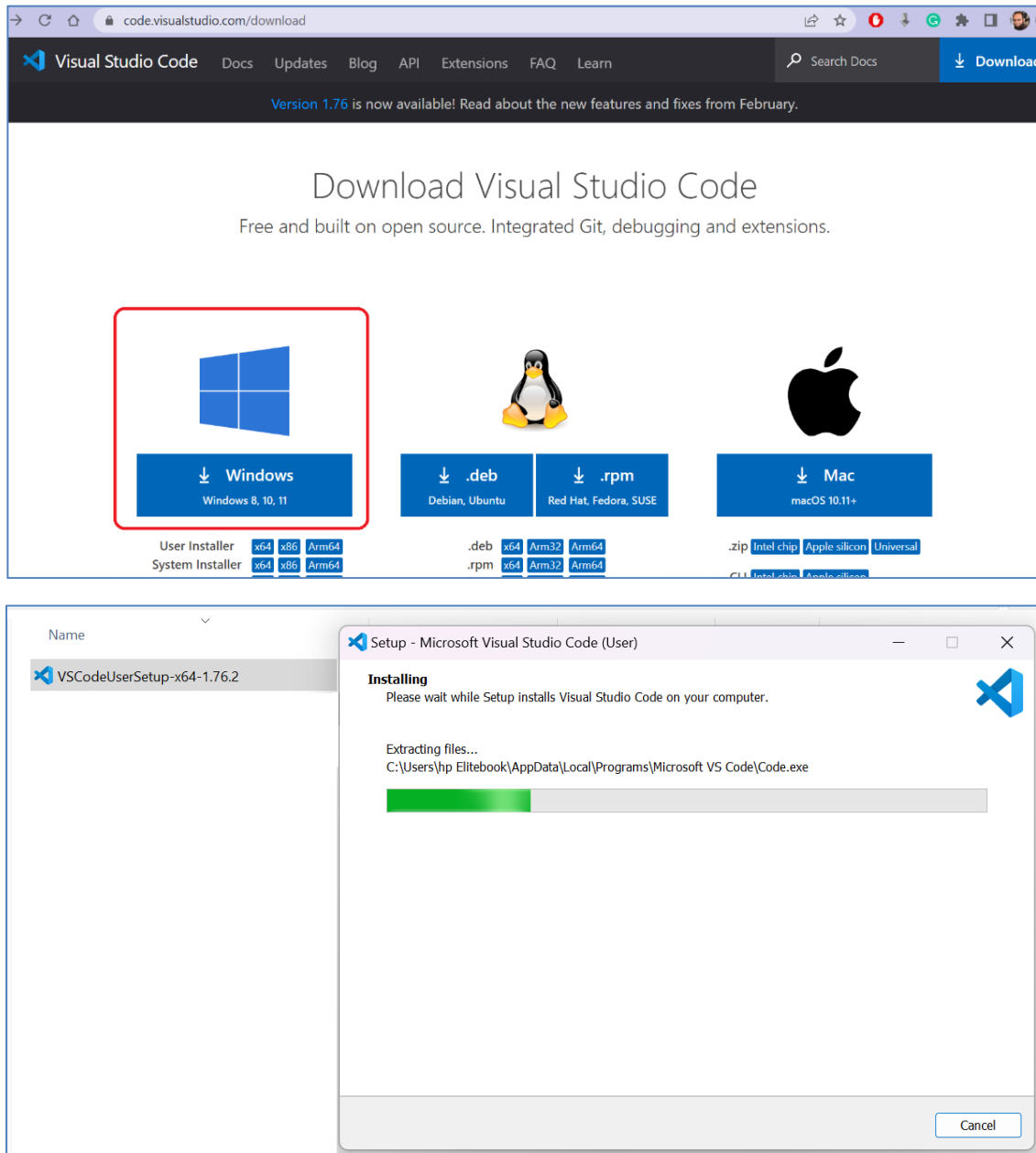2. http://localhost/SP23_Student_MIS/public/

Part 2:   Microsoft Visual Studio Code (VS Code) Installation

Follow these steps.

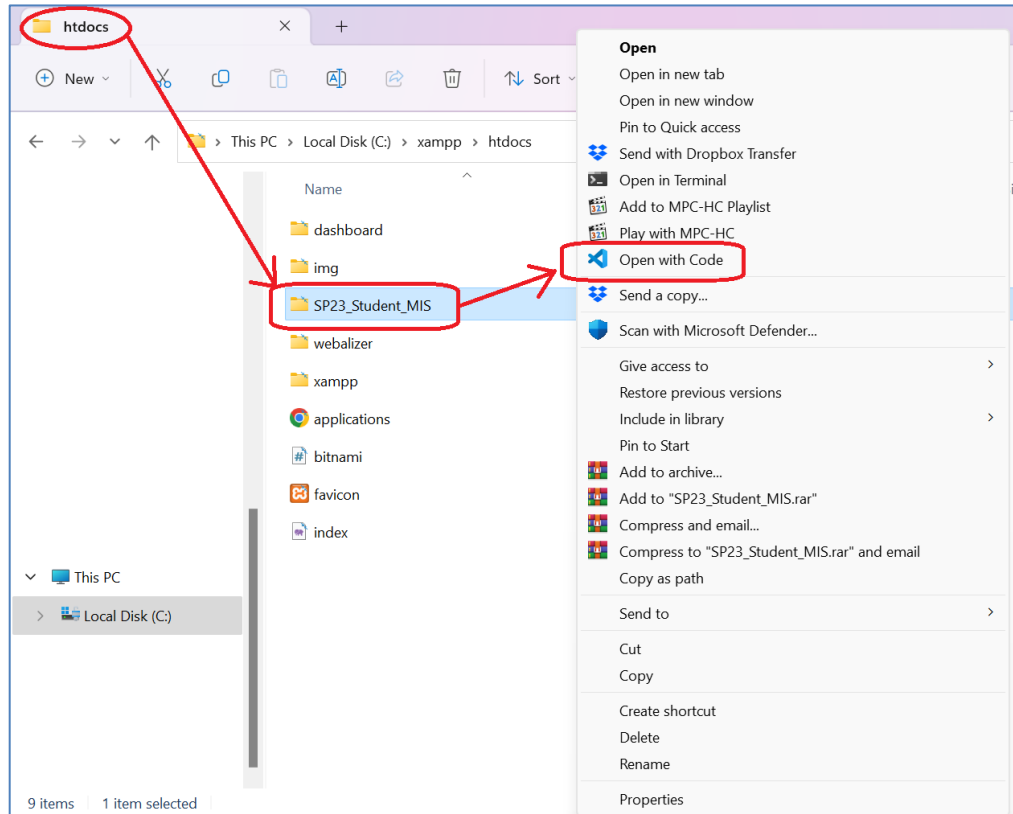a)   Use the following URL to download and install VS Code

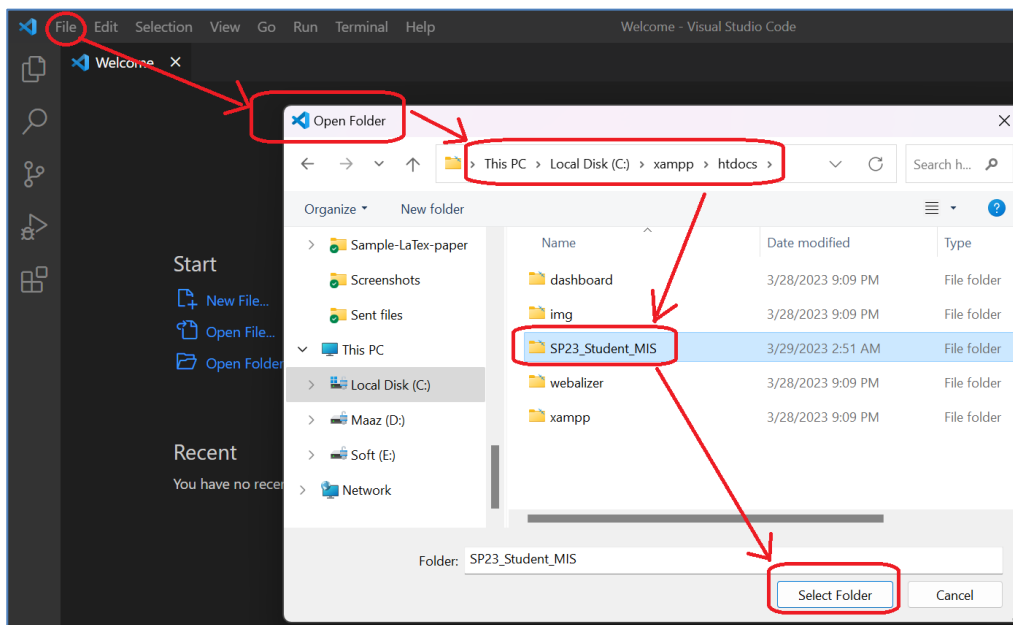URL: https://code.visualstudio.com/download

b) After Successful installation, Open Laravel project using VS Code using one of the TWO methods.
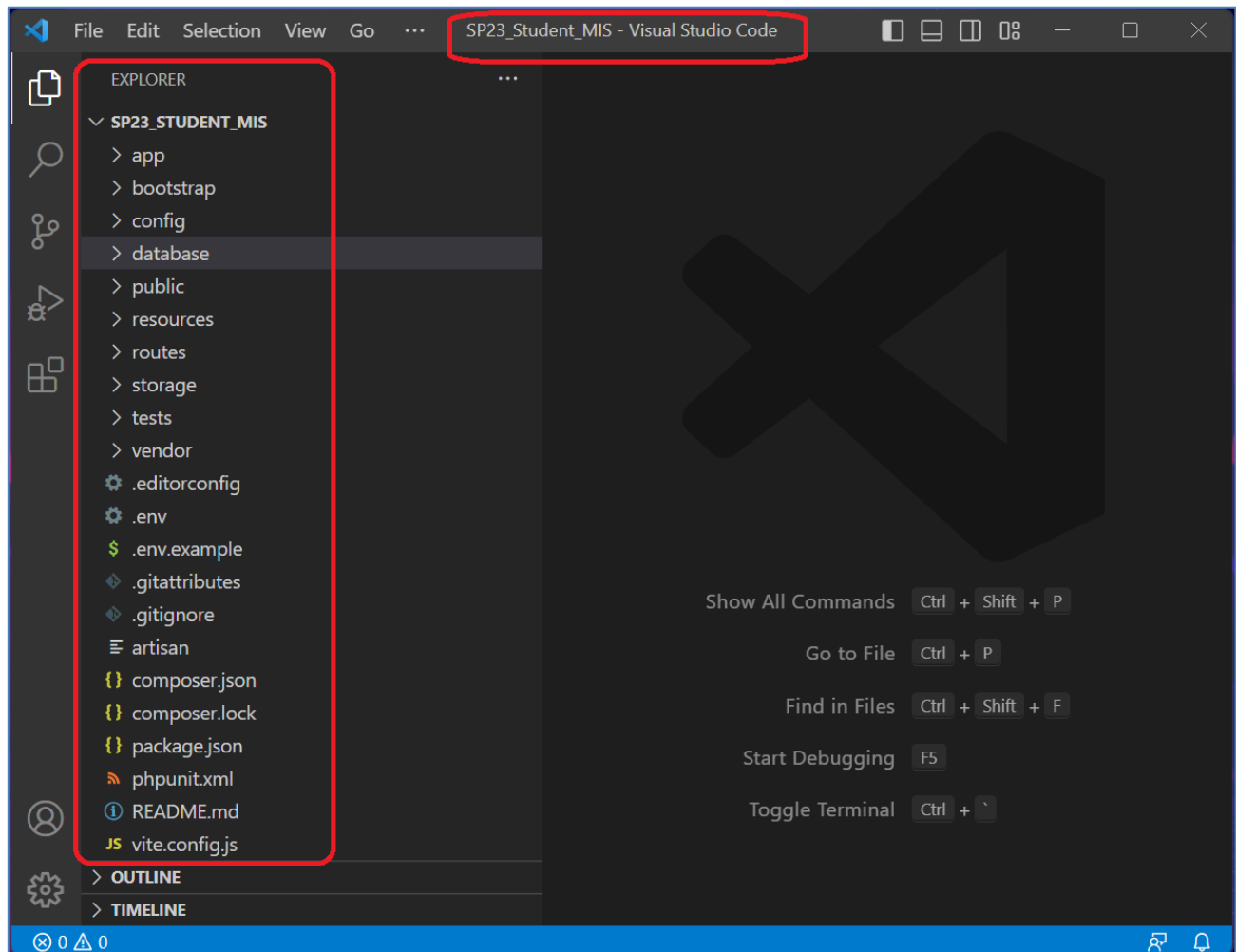
    1. Using right click on the **project folder** in **htdocs**

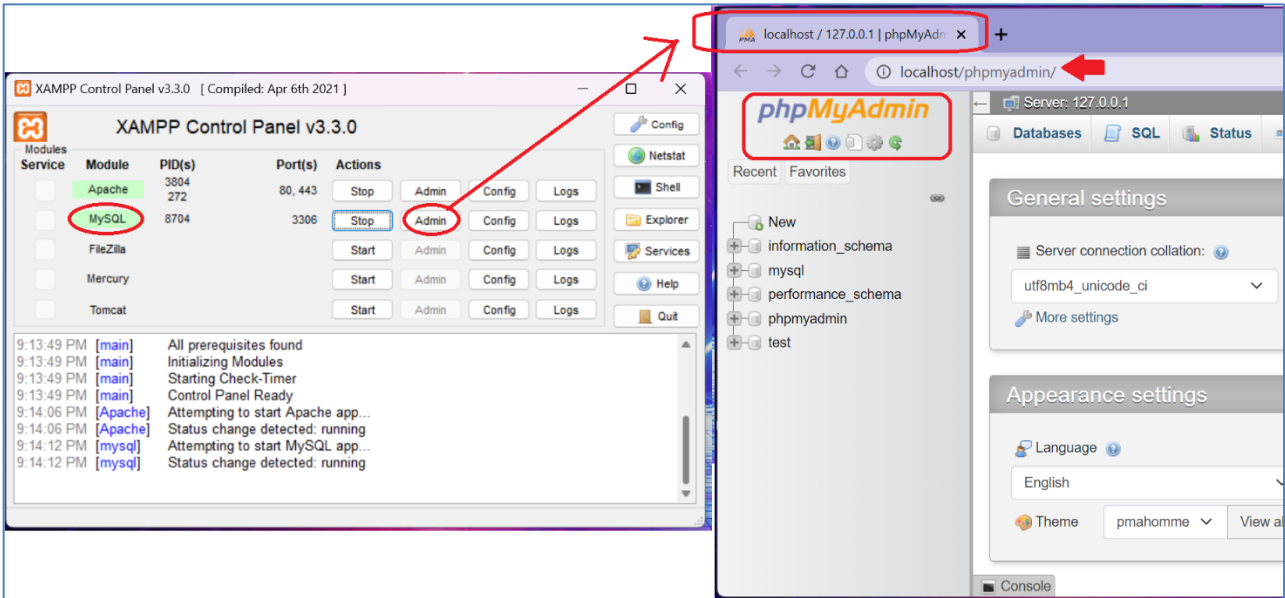   2. Using Open Folder option of VS Code editor

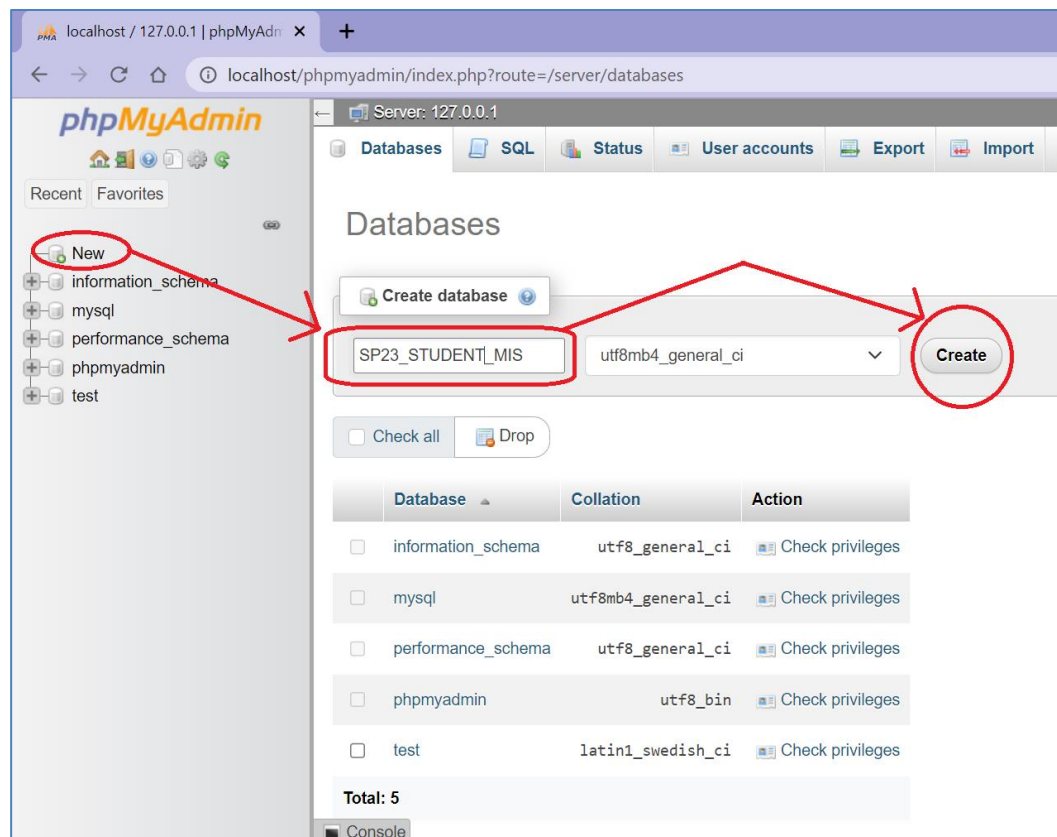c) Laravel project will look in VS Code as shown below.

Part 3:   Creating a Database in MySQL and linking with Laravel Application
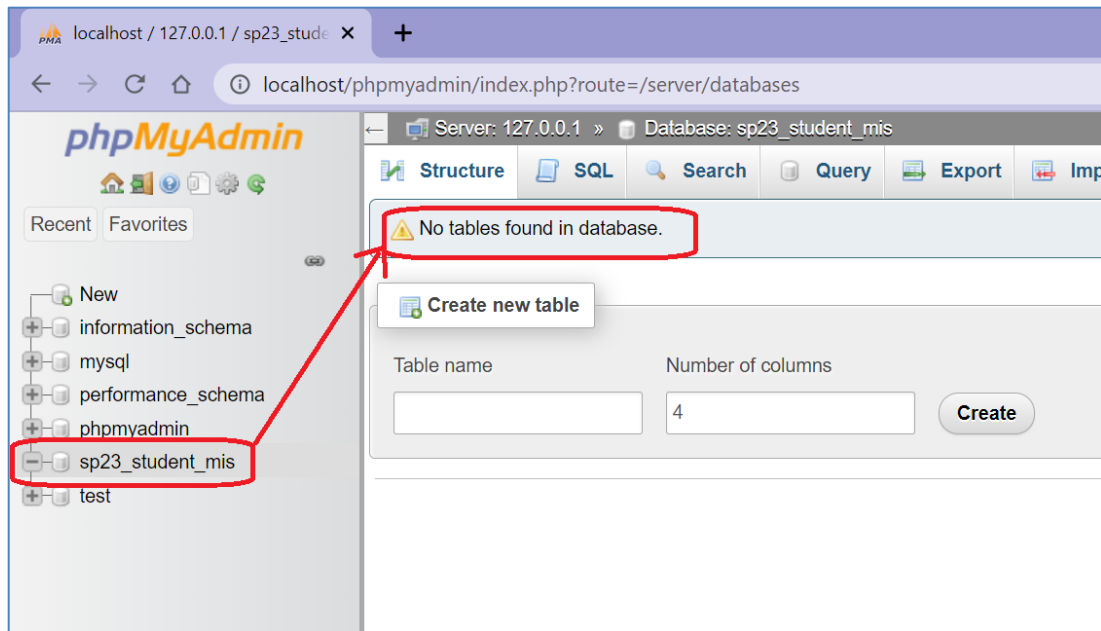
Follow these steps.

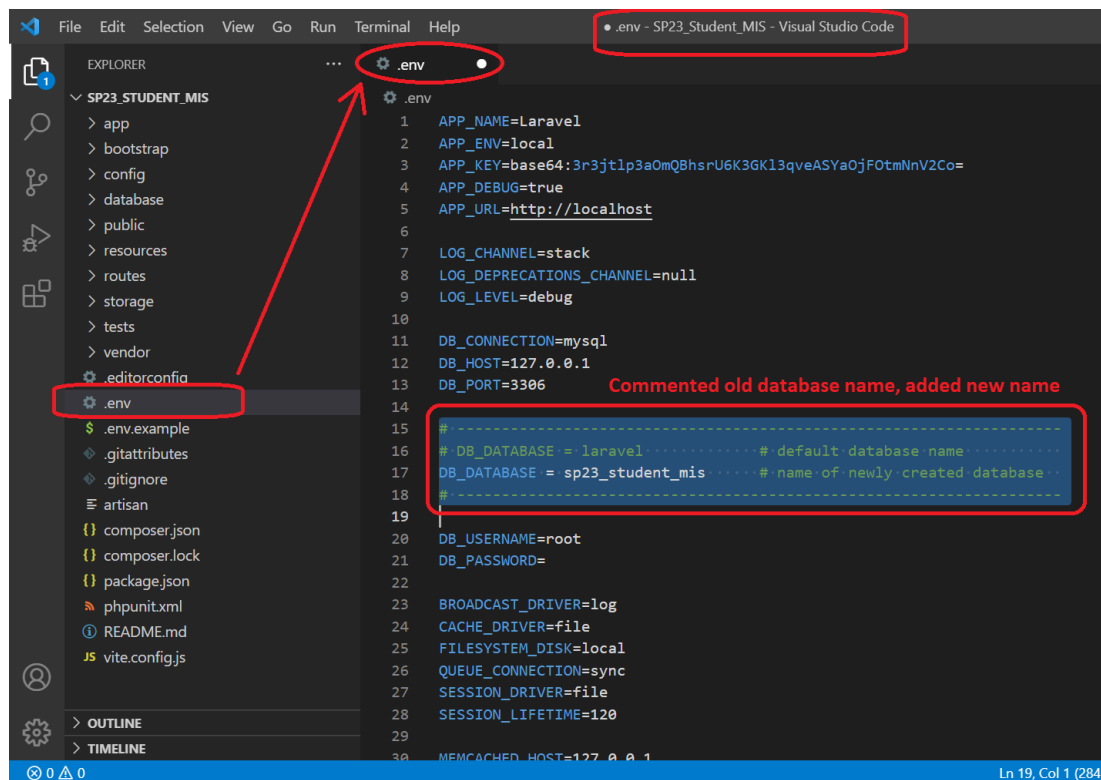a) Open XAMPP MySQL as shown in the image below.

b) Create a new database in your XAMPP MySQL

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c) Modify the DB_DATABASE property in your **.env** file according to your database name. MY database name is **2323_student_mis**.

*** End ***