Task 1:

Create a new Laravel project named "MigrationAssignment" using the Laravel command-line interface.

```
hp@LAPTOP-A3OEFPR1 MINGW64 /d/Ostad php/module-16
$ composer global require laravel/installer
Changed current directory to C:/Users/hp/AppData/Roaming/Composer
Info from https://repo.packagist.org: #StandWithUkraine
./composer.json has been updated
Running composer update laravel/installer
Loading composer repositories with package information
Updating dependencies
Nothing to modify in lock file
Writing lock file
Installing dependencies from lock file (including require-dev)
Nothing to install, update or remove
Generating autoload files
9 packages you are using are looking for funding.
Use the `composer fund` command to find out more!
No security vulnerability advisories found
Using version ^4.5 for laravel/installer

hp@LAPTOP-A3OEFPR1 MINGW64 /d/Ostad php/module-16
$ laravel new MigrationAssignment


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    Creating a "laravel/laravel" project at "./MigrationAssignment"
    Installing laravel/laravel (v10.2.2)
      - Installing laravel/laravel (v10.2.2): Extracting archive
    Created project in D:\Ostad php\module-16/MigrationAssignment
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
    Loading composer repositories with package information
    Updating dependencies
Lock file operations: 108 installs, 0 updates, 0 removals
  - Locking brick/math (0.11.0)
  - Locking dflydev/dot-access-data (v3.0.2)
  - Locking doctrine/inflector (2.0.6)
  - Locking doctrine/lexer (3.0.0)
```

Task 2:
 Within the project, create a new migration file named "create_products_table" that will be responsible for creating a table called "products" in the database. The "products" table should have the following columns:

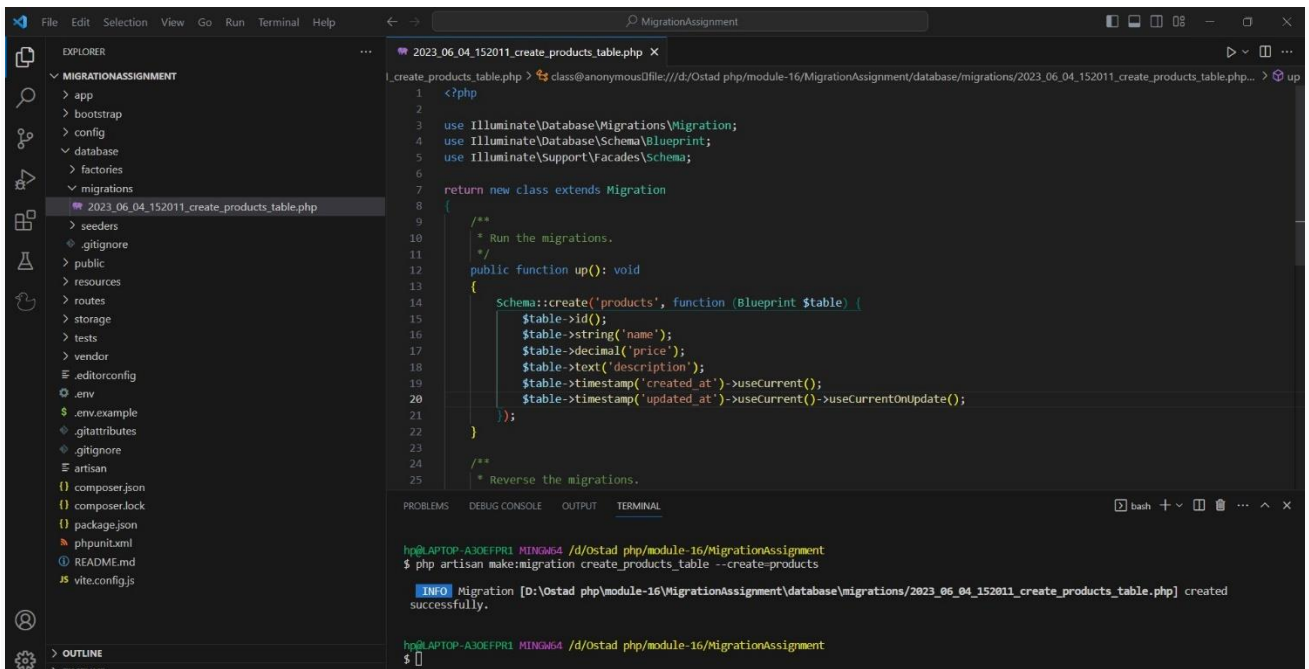id: an auto-incrementing integer and primary key.

name: a string column to store the product name.

price: a decimal column to store the product price.

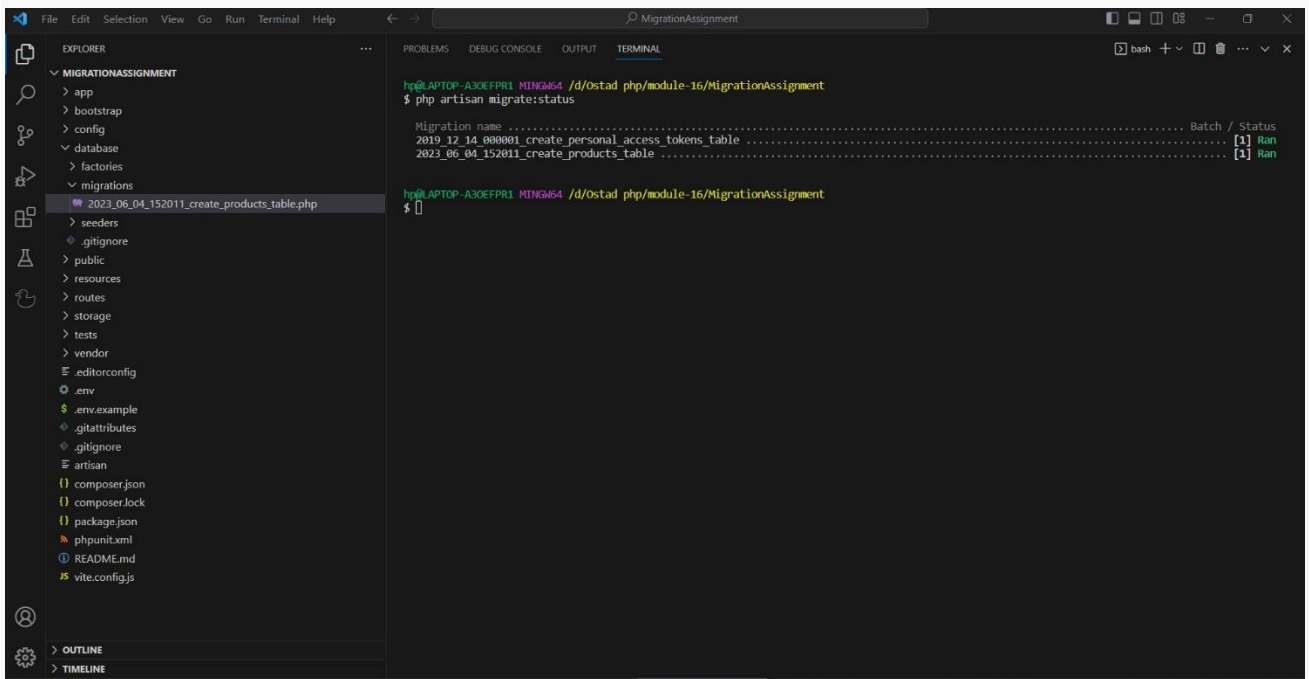description: a text column to store the product description.

created_at: a timestamp column to store the creation date and time.

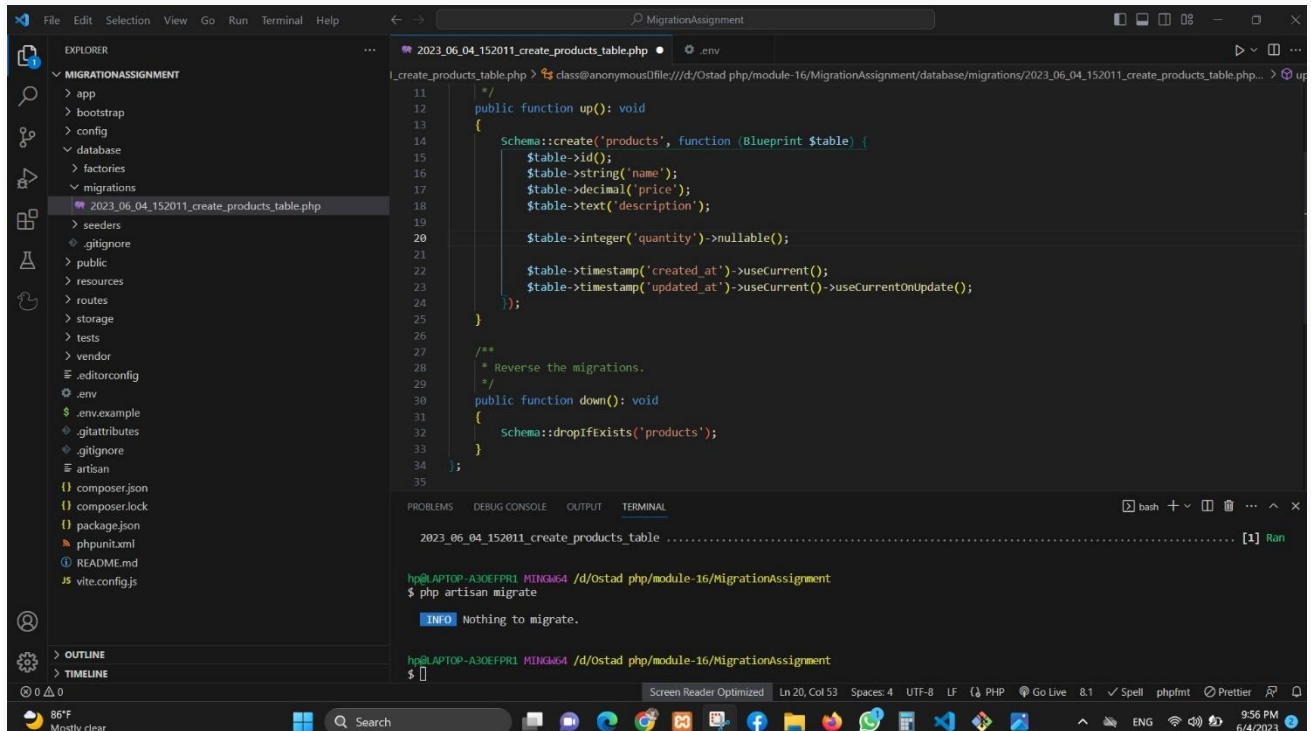updated_at: a timestamp column to store the last update date and time.

Task 3:

After creating the migration file, run the migration to create the "products" table in the database.

## Task 4:

Modify the existing migration file "create_products_table" to add a new column called "quantity" to the "products" table. The "quantity" column should be an integer column and allow null values.
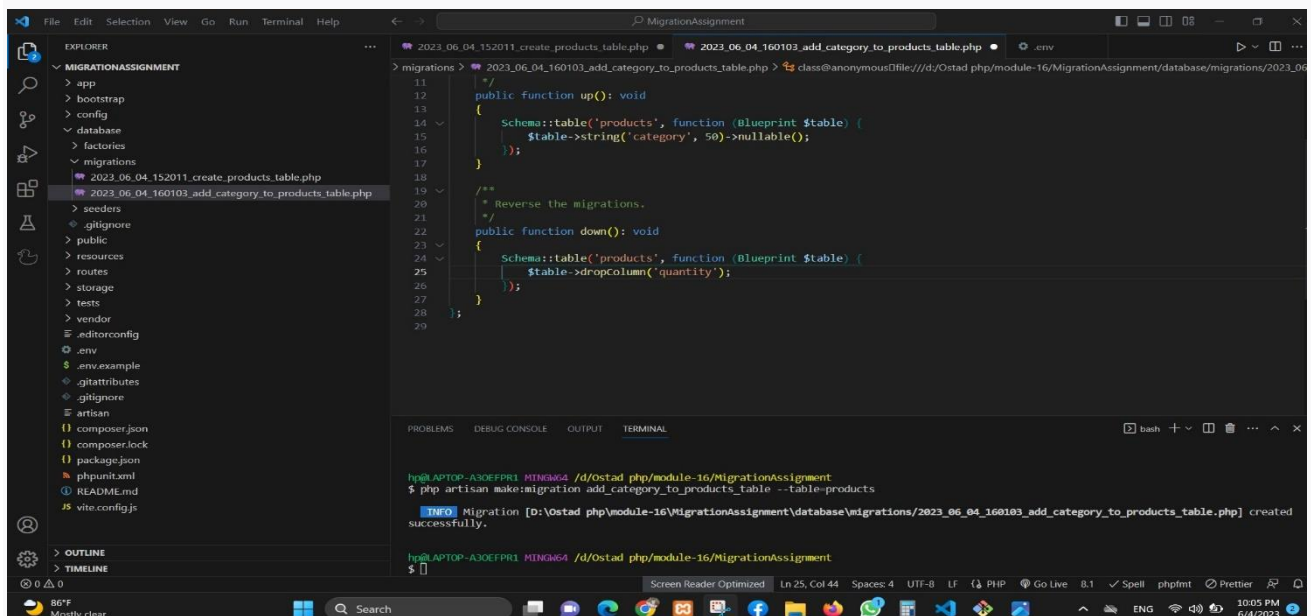


## Task 5:

Create a new migration file named "add_category_to_products_table" that will be responsible for adding a new column called "category" to the "products" table. The "category" column should be a string column with a maximum length of 50 characters.

Task 6:

After creating the new migration file, run the migration to add the "category" column to the "products" table.



Task 7:

Create a new migration file named "create_orders_table" that will be responsible for creating a table called "orders" in the database. The "orders" table should have the following columns:

id: an auto-incrementing integer and primary key.
product_id: an unsigned integer column to establish a foreign key relationship with the "id" column of the "products" table.
quantity: an integer column to store the quantity of products ordered.
created_at: a timestamp column to store the creation date and time.
updated_at: a timestamp column to store the last update date and time.

## Task 8:

After creating the migration file for the "orders" table, run the migration to create the "orders" table in the database.