

## Task 1:

```
Windows PowerShell

PS D:\xampp\htdocs\www\ostad.prac\module-16> laravel new MigrationAssignment

Creating a "laravel/laravel" project at "./MigrationAssignment"
Info from https://repo.packagist.org: #StandWithUkraine
Installing laravel/laravel (v10.2.2)
- Installing laravel/laravel (v10.2.2): Extracting archive
Created project in D:\xampp\htdocs\www\ostad.prac\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)
```

## Task 2:

php artisan make:migration create\_products\_table --create=products

The screenshot shows the Visual Studio Code interface. On the left, the Explorer pane shows the project structure with the file `2023_06_05_075715_create_products_table.php` selected under the `migrations` directory. The main editor displays the content of this migration file, which includes a class extending `Migration` with `up()` and `down()` methods. The `up()` method uses `Schema::create` to create a `products` table with columns `id`, `name`, `price`, and `description`. The `down()` method uses `Schema::dropIfExists` to drop the table. A red arrow points to the `create_products_table.php` file in the Explorer, and another red arrow points to the `Schema::create` line in the editor. The bottom terminal pane shows the command `php artisan make:migration create_products_table --create=products` being executed, with an output message indicating the migration was created successfully. A red arrow points to this command in the terminal.

```
database > migrations > 2023_06_05_075715_create_products_table.php > PHP > class@anonymousD:\d:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment\database\Migrations\2023_06_05_075715_create_products_table.php
1 use Illuminate\Support\Facades\Schema;
2
3
4
5
6
7 return new class extends Migration
8 {
9
10     /**
11      * Run the migrations.
12      */
13     public function up(): void
14     {
15         Schema::create('products', function (Blueprint $table) {
16             $table->id();
17             $table->string('name');
18             $table->decimal('price', 8, 2);
19             $table->text('description');
20             $table->timestamps();
21         });
22     }
23
24     /**
25      * Reverse the migrations.
26      */
27     public function down(): void
28     {
29         Schema::dropIfExists('products');
30     }
31 }
```

```
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment> php artisan make:migration create_products_table --create=products
[INFO] Migration [D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment\database\Migrations\2023_06_05_075715_create_products_table.php] created successfully.
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment>
```

### Task: 3:

```
PDOException: ("SQLSTATE[HY000] [2002] No connection could be made because the target machine actively refused it")

2 vendor\laravel\framework\src\Illuminate\Database\Connectors\Connector.php:65
PDO::__construct("mysql:host=127.0.0.1;port=3306;dbname=migrationassignment", "root", "", [])

PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment> php artisan migrate

INFO Preparing database.

Creating migration table ..... 41ms DONE

INFO Running migrations.

2014_10_12_000000_create_users_table ..... 54ms DONE
2014_10_12_100000_create_password_reset_tokens_table ..... 70ms DONE
2019_08_19_000000_create_failed_jobs_table ..... 37ms DONE
2019_12_14_000001_create_personal_access_tokens_table ..... 50ms DONE
2023_06_05_075715_create_products_table ..... 32ms DONE

PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment>
```

### Task: 4:

php artisan make:migration add\_quantity\_to\_products\_table --table=products

```
2023_06_05_075715_create_products_table.php  .env  2023_06_05_083341_add_quantity_to_products_table.php X
database > migrations > 2023_06_05_083341_add_quantity_to_products_table.php > PHP Intelephense > class > down > Closure
3 use Illuminate\Database\Migrations\Migration;
4 use Illuminate\Database\Schema\Blueprint;
5 use Illuminate\Support\Facades\Schema;
6
7 return new class extends Migration
8 {
9     /**
10      * Run the migrations.
11      */
12     public function up(): void
13     {
14         Schema::table('products', function (Blueprint $table) {
15             $table->integer('quantity')->nullable();
16         });
17     }
18
19     /**
20      * Reverse the migrations.
21      */
22     public function down(): void
23     {
24         Schema::table('products', function (Blueprint $table) {
25             $table->dropColumn('quantity');
26         });
27     }
28 }
```

```
INFO Preparing database.

Creating migration table ..... 41ms DONE

INFO Running migrations.

2014_10_12_000000_create_users_table ..... 54ms DONE
2014_10_12_100000_create_password_reset_tokens_table ..... 70ms DONE
2019_08_19_000000_create_failed_jobs_table ..... 37ms DONE
2019_12_14_000001_create_personal_access_tokens_table ..... 50ms DONE
2023_06_05_075715_create_products_table ..... 32ms DONE

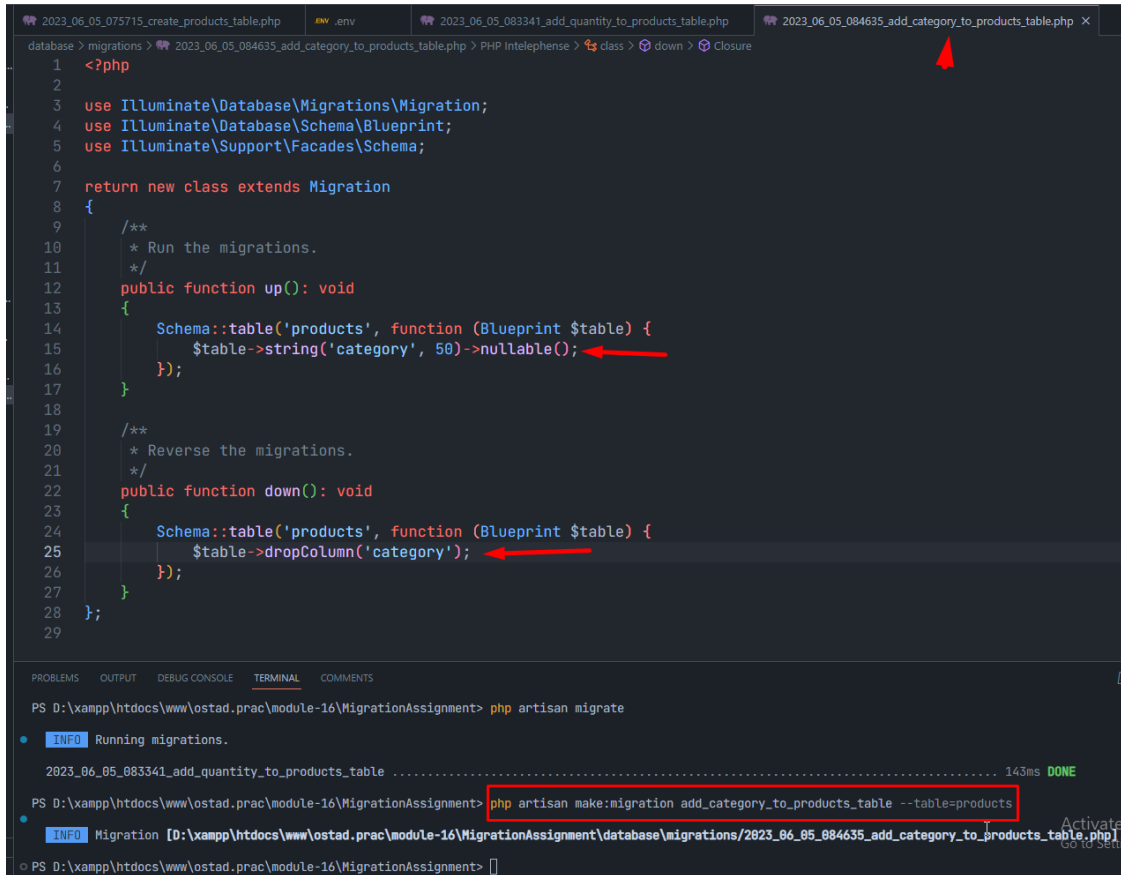
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment> php artisan make:migration add_quantity_to_products_table --table=products

INFO Migration [D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment\database\migrations\2023_06_05_083341_add_quantity_to_products_table.php] created successfully.

PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment>
```

## Task: 5:

php artisan make:migration add\_category\_to\_products\_table --table=products



The screenshot shows an IDE with a PHP migration file and its execution in the terminal. The migration file is located at `2023_06_05_084635_add_category_to_products_table.php` and contains the following code:

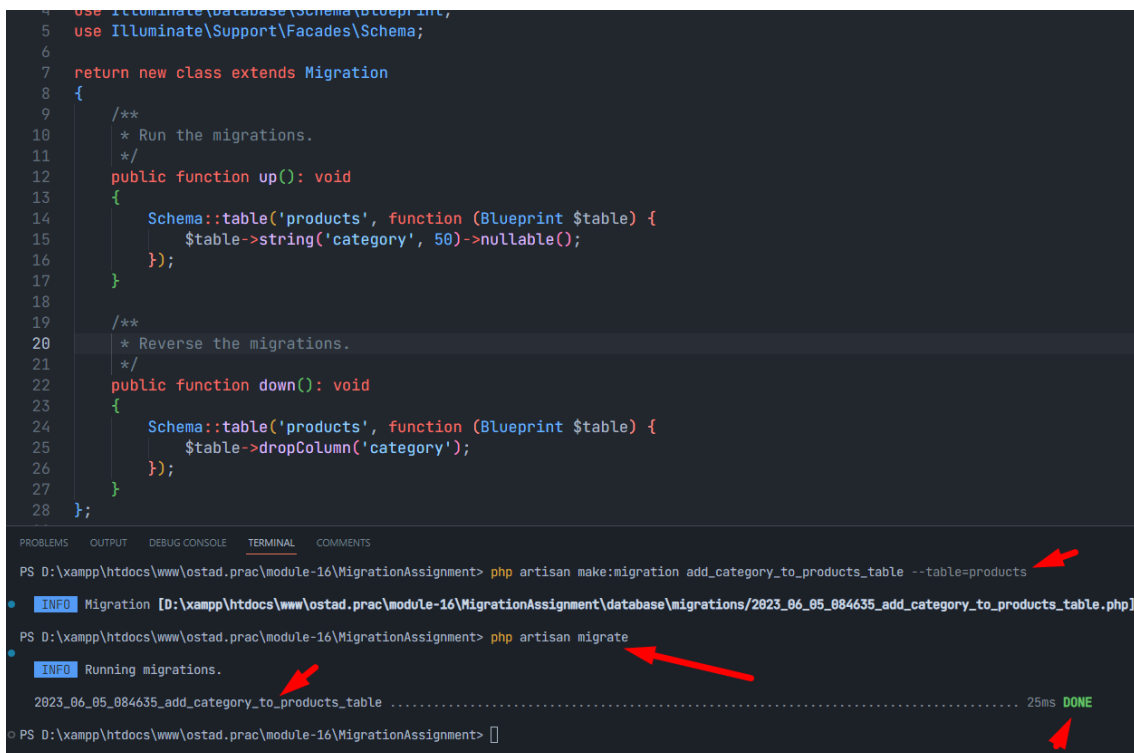
```
<?php
use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::table('products', function (Blueprint $table) {
            $table->string('category', 50)->nullable();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::table('products', function (Blueprint $table) {
            $table->dropColumn('category');
        });
    }
};
```

The terminal output shows the command `php artisan migrate` being executed, which runs the migrations. The output indicates that the migration `2023_06_05_084635_add_category_to_products_table` was successfully executed in 143ms.

## Task: 6:



The screenshot shows an IDE with a PHP migration file and its execution in the terminal. The migration file is located at `2023_06_05_084635_add_category_to_products_table.php` and contains the following code:

```
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

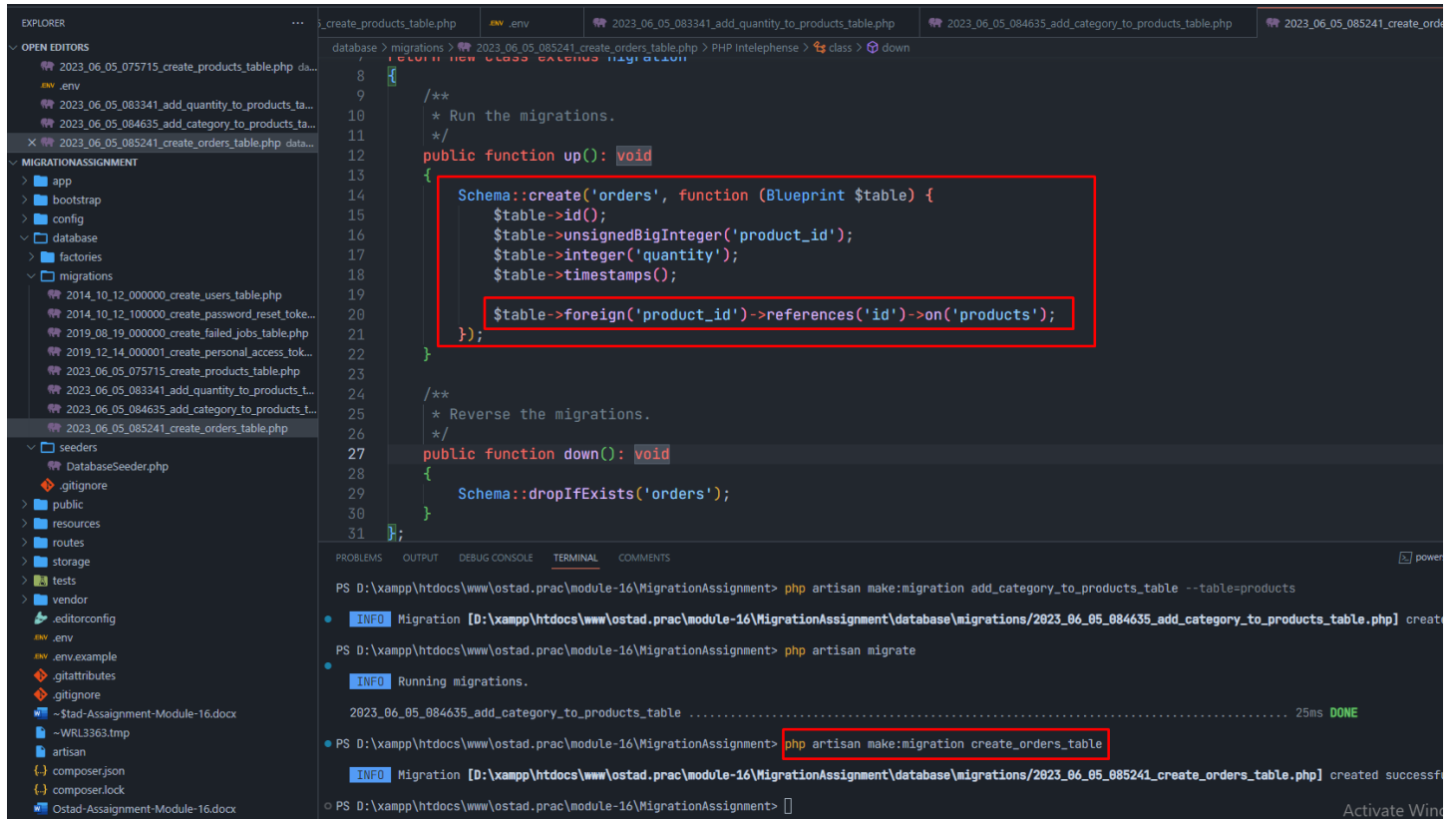
return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::table('products', function (Blueprint $table) {
            $table->string('category', 50)->nullable();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::table('products', function (Blueprint $table) {
            $table->dropColumn('category');
        });
    }
};
```

The terminal output shows the command `php artisan make:migration add_category_to_products_table --table=products` being executed, which creates the migration file. The output indicates that the migration `2023_06_05_084635_add_category_to_products_table` was successfully created in 25ms.

## Task: 7:

php artisan make:migration create\_orders\_table



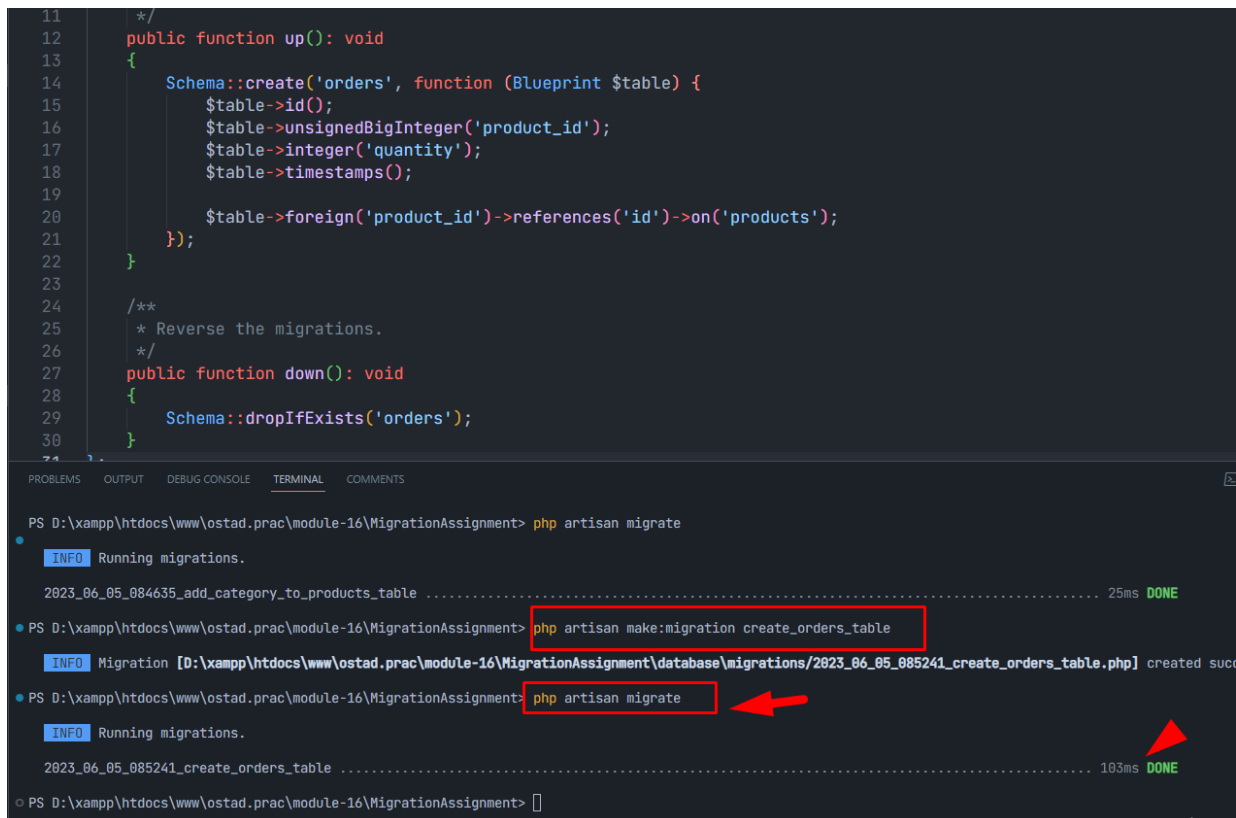
The screenshot shows an IDE with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'app', 'bootstrap', 'config', 'database', 'factories', 'migrations', 'seeds', 'storage', 'tests', and 'vendor'. The code editor displays a migration file named '2023\_06\_05\_085241\_create\_orders\_table.php'. The code is as follows:

```
8  /**
9  * Run the migrations.
10  */
11  public function up(): void
12  {
13      Schema::create('orders', function (Blueprint $table) {
14          $table->id();
15          $table->unsignedBigInteger('product_id');
16          $table->integer('quantity');
17          $table->timestamps();
18          $table->foreign('product_id')->references('id')->on('products');
19      });
20  }
21
22  /**
23  * Reverse the migrations.
24  */
25  public function down(): void
26  {
27      Schema::dropIfExists('orders');
28  }
29
30  }
```

The terminal at the bottom shows the execution of the migration command:

```
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment> php artisan make:migration add_category_to_products_table --table=products
[INFO] Migration [D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment\database\Migrations\2023_06_05_084635_add_category_to_products_table.php] created successfully
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment> php artisan migrate
[INFO] Running migrations.
2023_06_05_084635_add_category_to_products_table ..... 25ms DONE
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment> php artisan make:migration create_orders_table
[INFO] Migration [D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment\database\Migrations\2023_06_05_085241_create_orders_table.php] created successfully
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment>
```

## Task: 8:



The screenshot shows the same IDE as Task 7, but with a different migration file named '2023\_06\_05\_085241\_create\_orders\_table.php'. The code is as follows:

```
11  /**
12  * Run the migrations.
13  */
14  public function up(): void
15  {
16      Schema::create('orders', function (Blueprint $table) {
17          $table->id();
18          $table->unsignedBigInteger('product_id');
19          $table->integer('quantity');
20          $table->timestamps();
21          $table->foreign('product_id')->references('id')->on('products');
22      });
23  }
24
25  /**
26  * Reverse the migrations.
27  */
28  public function down(): void
29  {
30      Schema::dropIfExists('orders');
31  }
32  }
```

The terminal at the bottom shows the execution of the migration command:

```
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment> php artisan migrate
[INFO] Running migrations.
2023_06_05_084635_add_category_to_products_table ..... 25ms DONE
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment> php artisan make:migration create_orders_table
[INFO] Migration [D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment\database\Migrations\2023_06_05_085241_create_orders_table.php] created successfully
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment> php artisan migrate
[INFO] Running migrations.
2023_06_05_085241_create_orders_table ..... 103ms DONE
PS D:\xampp\htdocs\www\ostad.prac\module-16\MigrationAssignment>
```