***Task 1:***

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

***Solution:***

Command:composer create-project laravel/laravel MigrationAssignment

***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:***

***Solution:***

Command:

php artisan make:migration create\_products\_table

**Products table migration File:**

A screen shot of a computer code

Description automatically generated with low confidence

***Task 3:***

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

***Solution:***

Command:php artisan migrate

***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.***

***Solution:***

Command:php artisan make:migration add\_quantity\_to\_products

**add\_quantity\_to\_products migration file:**

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Description automatically generated

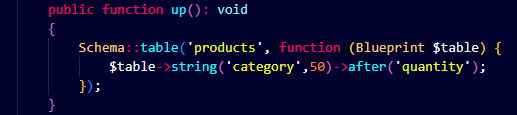
***Task 5:***

***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.***

***Solution:***

Command:php artisan make:migration add\_category\_to\_products

**add\_category\_to\_products migration file:**



***Task 6:***

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

***Solution:***

*Command****:*** php artisan migrate

***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.***

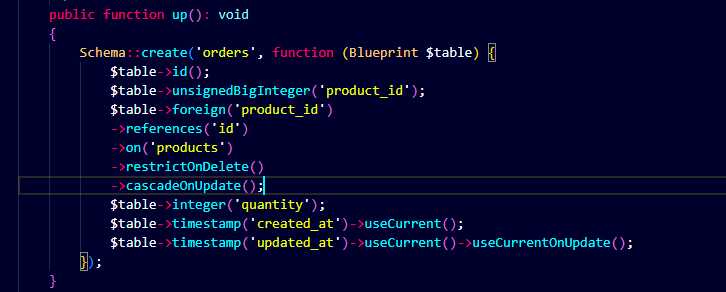
***created\_at: a timestamp column to store the creation date and time.***

***updated\_at: a timestamp column to store the last update date and time.***

***Solution:***

Command:php artisan make:migration create\_orders\_table

**create\_orders\_table migration file:**



***Task 8:***

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

Solution:

Command:php artisan migrate