

## Laravel Lab Manual Programs for Journal

No.	Laravel Program	Definition / Description
1	<b>Hello World App</b>	A basic Laravel route and controller to display “Hello World” on a webpage.
2	<b>Simple Calculator</b>	A web app that performs addition, subtraction, multiplication, and division using Laravel routes and controllers.
3	<b>Student Registration Form</b>	Collects and stores student details in a database using form submission and Eloquent ORM.
4	<b>CRUD Operation on Students Table</b>	Demonstrates Create, Read, Update, Delete operations using Eloquent ORM and Blade templates.
5	<b>User Authentication System</b>	Implements login, registration, and logout using Laravel Breeze or Jetstream.
6	<b>File Upload Example</b>	Allows users to upload files and stores them in the storage directory.
7	<b>Image Gallery App</b>	Displays uploaded images with titles, and allows users to upload new images.
8	<b>Contact Form with Email</b>	Sends an email using Laravel’s Mail feature when the contact form is submitted.
9	<b>Pagination Example</b>	Demonstrates how to paginate large datasets using Eloquent and Blade pagination links.
10	<b>Search Filter Example</b>	Implements search functionality on a table using where queries and Blade form inputs.
11	<b>Session Management Example</b>	Stores and retrieves user data from Laravel sessions.
12	<b>Middleware Example</b>	Demonstrates how to create and use custom middleware for route access control.
13	<b>API CRUD with JSON Response</b>	Creates RESTful API endpoints that return JSON data for CRUD operations.
14	<b>Ajax CRUD Example</b>	Uses AJAX requests (without page reload) to perform CRUD operations.

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15 <b>To-Do List App</b>	A small task management app to add, update, and delete tasks.
16 <b>Blog Application</b>	A multi-user blog system with posts, categories, and comments.
17 <b>Event and Listener Example</b>	Shows how to trigger and handle Laravel events using listeners.
18 <b>Notification Example</b>	Sends notifications (email/SMS/database) using Laravel Notification system.
19 <b>Role-Based Access Control</b>	Demonstrates user roles (Admin, User) and permissions using middleware or Spatie package.
20 <b>Product Catalog App</b>	Displays products, categories, and details using Eloquent relationships.
21 <b>Shopping Cart Example</b>	Implements adding/removing items to a shopping cart using sessions.
22 <b>Localization Example</b>	Demonstrates multi-language support using Laravel's localization features.
23 <b>Queue and Job Example</b>	Demonstrates how to use queues for background tasks like sending emails.
24 <b>PDF Generation Example</b>	Generates downloadable PDF reports using packages like barryvdh/laravel-dompdf.
25 <b>Social Login (Google/Facebook)</b>	Implements OAuth-based login using Laravel Socialite package.

### List of 5 OOP PHP Journal Programs

No. Program Title	OOP Concepts Covered
1 <b>Program 1: Class and Object with Constructor &amp; Destructor</b>	Class, Object, Properties, Methods, Constructor, Destructor

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<b>No.</b>	<b>Program Title</b>	<b>OOP Concepts Covered</b>
2	<b>Program 2: Inheritance and Method Overriding Example</b>	Inheritance, Method Overriding, Access Specifiers (public, protected), Scope Resolution (::)
3	<b>Program 3: Abstract Class and Interface Implementation</b>	Abstract Class, Interface, Method Implementation, Final Keyword
4	<b>Program 4: Magic Methods, Magic Constants, and Object Cloning</b>	Magic Methods (__construct, __destruct, __clone, __toString), Magic Constants (__CLASS__, __METHOD__), Object Cloning
5	<b>Program 5: Exception Handling and Type Hinting Example</b>	Try-Catch Block, Custom Exception, Type Hinting, Late Static Binding