**LAB TASKS:**

PHP CRUD tasks for a Student Management System with 10 attributes:

Student Table Attributes

id (Primary Key, Auto-increment)

name (VARCHAR)

email (VARCHAR, Unique)

phone (VARCHAR)

dob (DATE)

gender (ENUM: 'Male', 'Female', 'Other')

address (TEXT)

department (VARCHAR)

cgpa (DECIMAL)

enrollment\_date (DATE)

**Tasks:**

**1. Create Database & Table**

Create a database named student\_db.

Create a table students with the above attributes.

**2. Create a Student (INSERT)**

Develop an HTML form to collect student data.

Write a PHP script (add\_student.php) to insert form data into the database.

**3. Read Students (SELECT)**

Display all students in an HTML table using PHP (view\_students.php).

Use a loop to fetch data from the database.

**4. Update Student Details (UPDATE)**

Add an "Edit" button for each student in view\_students.php.

Create edit\_student.php to fetch the student’s data and update it.

**5. Delete a Student (DELETE)**

Add a "Delete" button in view\_students.php.

Write a PHP script (delete\_student.php) to delete a student by ID.

**6. Search Students**

Implement a search bar in view\_students.php to find students by name, email, or department.

**7. Filter Students by Department**

Add a dropdown to filter students based on their department.

**8. Sort Students**

Provide sorting options by name, CGPA, or enrollment date.

**9. Validate Input Data**

Validate user input (e.g., email format, CGPA range, required fields).

**10. Display Student Details**

Clicking on a student's name should open a student\_details.php page showing all details.