

Lab	Type	Practical
LAB-1	A A A A A B B C	Use Decision making statements 1. WAP to check whether the given number is odd or even. [A] 2. WAP to check whether the given number is positive, negative or Zero. [A] 3. WAP to print name of month based on given number of month (i.e. 1 -> January, 2 -> February...). [A] 4. WAP to print class of result based on percentage using switch statement (i.e. less than 40% -> Fail, 40% to 50% -> Pass Class, 50% to 60% -> Second Class, 60% to 70% -> First Class, above 70% -> Distinction). [A] 5. WAP to find greatest number from 3 number. [A] 6. WAP to check given number is palindrome or not. [B] 7. Write a simple calculator program in PHP. [B] 8. Write a program to calculate Electricity bill in PHP. [C]
LAB-2	A A A B B C C	Use Loops 1. WAP to print First n numbers using for, while and do while loop. [A] 2. WAP to print First n odd numbers using for, while and do while loop. [A] 3. WAP to find sum of all even numbers between 1 to n. [A] 4. WAP to print Fibonacci series up to n number. [B] 5. WAP to print table of 10 using for loop. [B] 6. WAP to find sum of first and last digit of a number. [C] 7. WAP to print all Armstrong number between two given numbers. [C]



LAB-3	A	<p>Implementation of patterns</p> <p>1. WAP to print following patterns: [A]</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <pre> * * * * * * * * * * * * * * * (a) </pre> </div> <div style="text-align: center;"> <pre> * * * * * * * * * * * * * * * (b) </pre> </div> <div style="text-align: center;"> <pre> 1 2 3 4 5 6 7 8 9 10 11 12 13 14 (c) </pre> </div> <div style="text-align: center;"> <pre> 1 2 2 3 3 3 4 4 4 4 5 5 5 5 5 (d) </pre> </div> </div>
	B	<p>2. WAP to print following patterns: [B]</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <pre> * * * * * * * * * * * * * * * (a) </pre> </div> <div style="text-align: center;"> <pre> * * * * * * * * * * * * * * * (b) </pre> </div> <div style="text-align: center;"> <pre> * * * * * * * * * * * * * * * (c) </pre> </div> </div>
	C	<p>3. WAP to print following patterns: [C]</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <pre> * * * * * * * * * * ***** (a) </pre> </div> <div style="text-align: center;"> <pre> 1 1 1 1 2 1 1 3 3 1 1 4 6 4 1 (b) </pre> </div> <div style="text-align: center;"> <pre> 1 2 3 4 5 2 3 4 5 3 4 5 4 5 5 4 5 3 4 5 2 3 4 5 1 2 3 4 5 (c) </pre> </div> </div>
LAB-4	A A A A B B C C	<p>Use Arrays</p> <ol style="list-style-type: none"> WAP to create numeric array and print it. [A] WAP to create associative array and print it. [A] WAP to create multidimensional array and print it. [A] WAP to demonstrate the use of various array function on an array. [A] WAP to print the elements of an array using foreach loop. [B] WAP to sort given array in descending order without using inbuilt function. [B] Find the Kth largest and Kth smallest number in an array. [C] Find first Subarray with given sum. [C]

LAB-5	A A A B C	Implementation of User Define Function (UDF) 1. WAP to create user define function to print your name (without argument) and call it. [A] 2. WAP to create user define function to print name (with argument) and call it 5 times with different names as an argument. [A] 3. WAP to create user define function for adding two numbers and return answer and use it to find addition of two numbers and print answer. [A] 4. WAP for simple calculator with the use of function [B] 5. WAP to find sum of all odd array elements by passing array as an argument using user define functions [C]
LAB-6	A A A B C	Implement Recursion and Web page partition 1. WAP to calculate sum of first n numbers using recursion. [A] 2. WAP to calculate factorial of a number using recursion. [A] 3. Demonstrate the use of PHP in webpage design for partition of page into different section like header, footer, sidebar, main content, etc. [A] 4. Design static website for a notice board, use PHP to reuse code of navigation bar and footer in each page. [B] 5. Design static website for a college, use PHP to reuse code of navigation bar and footer in each page. [C]
LAB-7	A B C	Implement Form processing 1. Design a student registration form and retrieve data in controller page using following Method: GET, POST, and REQUEST. [A] 2. Design an employee registration form and retrieve data in controller page using following Method: GET, POST, and REQUEST. [B] 3. Create form with all input types and retrieve data in controller page using following Method: GET, POST, and REQUEST. [C]
LAB-8	A B C	Implement Server side validation 1. Implement server side validation on student registration form using PHP. [A] 2. Implement server side validation on employee registration form using PHP. [B] 3. Implement server side validation on form with all input types using PHP. [C]
LAB-9	A B C	Write PHP code to upload a File 1. Create a webpage which accepts a file and upload it in specified folder on server. [A] 2. Design a profile page which allow to change profile picture dynamically. [B] 3. Create a webpage which accepts multiple files and upload them in specified folder on server. [C]

LAB-10	A	Create Static login application 1. Create static login application using session in PHP. [A] 2. Create static login application using cookie in PHP. [A]
	A	
LAB-11	A	Implementations of insert and delete database operation 1. Implement Insert and Delete database operations on students table from webpage using PHP. [A] 2. Implement Insert and Delete database operations on categories table from webpage using PHP. [B] 3. Implement Insert and Delete database operations on products table from webpage which contains foreign key relations with categories using PHP. [C]
	B	
	C	
LAB-12	A	Implementations of select and update database operation 1. Implement Select and Update database operations on students table and display it on webpage using PHP. [A] 2. Implement Select and update database operations on categories table and display it on webpage using PHP. [B] 3. Implement Select and update database operations on products table from webpage which contains foreign key relations with categories using PHP. [C]
	B	
	C	
LAB-13	A	Implementations of fully functional login application with remember me functionality 1. Implement complete login application using PHP, also use cookie to provide remember me functionality. [A] 2. Implement registration application using PHP. [A]
	A	
LAB-14	A	Use prepared statement to implement Insert and Delete database operations in PHP 1. Implement Insert and Delete database operations on students table using prepared statement in PHP. [A] 2. Implement Insert and Delete database operations on categories table using prepared statement in PHP. [B] 3. Implement Insert and Delete database operations on products table from webpage which contains foreign key relations with categories using prepared statement in PHP. [C]
	B	
	C	

LAB-15		Use prepared statement to implement Select and Update database operations in PHP
	A	1. Implement Select and Update database operations on students table using prepared statement in PHP. [A]
	B	2. Implement Select and Update database operations on categories table using prepared statement in PHP. [B]
	C	3. Implement Select and Update database operations on products table from webpage which contains foreign key relations with categories using prepared statement in PHP. [C]
LAB-16		Use stored procedure to implement Insert and Delete database operations in PHP
	A	1. Implement Insert and Delete database operations on students table using stored procedure in PHP. [A]
	B	2. Implement Insert and Delete database operations on categories table using stored procedure in PHP. [B]
	C	3. Implement Insert and Delete database operations on products table from webpage which contains foreign key relations with categories using stored procedure in PHP. [C]
LAB-17		Use stored procedure to implement Select and Update database operations in PHP
	A	1. Implement Select and Update database operations on students table using stored procedure in PHP. [A]
	B	2. Implement Select and Update database operations on categories table using stored procedure in PHP. [B]
	C	3. Implement Select and Update database operations on products table from webpage which contains foreign key relations with categories using stored procedure in PHP. [C]
LAB-18		Implement REST API for Retrieving data
	A	1. Implement REST API for 'GetAll' and 'GetByld' operations on students table in PHP. [A]
	B	2. Implement REST API for 'GetAll' and 'GetByld' operations on categories table in PHP. [B]
	C	3. Implement REST API for 'GetAll' and 'GetByld' operations on products table which contains foreign key relations with categories table in PHP. [C]

LAB-19	<p>A</p> <p>B</p> <p>C</p>	<p>Implement REST API for Insert, Update and Delete operations</p> <ol style="list-style-type: none"> 1. Implement REST API for Insert, Update and Delete operations on students table in PHP. [A] 2. Implement REST API for Insert, Update and Delete operations on categories table in PHP. [B] 3. Implement REST API for Insert, Update and Delete operations on products table which contains foreign key relations with categories table in PHP. [C]
LAB-20	<p>A</p> <p>A</p> <p>A</p> <p>B</p>	<p>Laravel Installation, Use routes and views</p> <ol style="list-style-type: none"> 1. Install and configure Laravel application and create first project. [A] 2. Use Laravel routing and create static pages which can be visited from URL. [A] 3. Create menu in above application. [A] 4. Create Laravel application which contains home page, about page, contact page, and product page also create menu on top. [B]
LAB-21	<p>A</p> <p>B</p>	<p>Implementations of various calculators using controllers in Laravel</p> <ol style="list-style-type: none"> 1. Use artisan command to create controller class and create simple calculator application. Write business logic in controller. [A] 2. Create area calculator application for various graphics primitives like square, rectangle, circle, etc. [B]
LAB-22	<p>A</p> <p>A</p> <p>C</p>	<p>Implement Database connection and migrations in Laravel</p> <ol style="list-style-type: none"> 1. Change settings for database connection to connect with your database in ".env" file. [A] 2. Use artisan command to create migration file and create database table for student with following fields: name, semester, branch, enrollment number, password etc. [A] 3. Practice Laravel seeding for populate database by programming for testing purpose. [C]
LAB-23	<p>A</p> <p>B</p> <p>C</p>	<p>Implementation of read operation using model and various artisan commands in Laravel</p> <ol style="list-style-type: none"> 1. Use artisan command to create model file for student and use query builder to retrieve all data from student table using DB facades. [A] 2. Use artisan command to create model file for student and write various relationship available in Laravel and use it to retrieve data from database. [B] 3. Create Login Registration application using artisan command in Laravel. [C]

LAB-24	A B C	Implementation of Insert operation in Laravel 1. Implement Insert operation on student table using Laravel. [A] 2. Implement Insert operation on categories table (select appropriate fields) using Laravel. [B] 3. Implement Insert operation on products table (select appropriate fields) having foreign key relationship with categories table using Laravel. [C]
LAB-25	A B C	Implementation of Update operation in Laravel 1. Implement Update operation on student table using Laravel. [A] 2. Implement Update operation on categories table (select appropriate fields) using Laravel. [B] 3. Implement Update operation on products table (select appropriate fields) having foreign key relationship with categories table using Laravel. [C]
LAB-26	A B C	Implementation of Delete operation in Laravel 1. Implement Delete operation on student table using Laravel. [A] 2. Implement Delete operation on categories table (select appropriate fields) using Laravel. [B] 3. Implement Delete operation on products table (select appropriate fields) having foreign key relationship with categories table using Laravel. [C]