Annexure-II

List of practical (Fundamentals of C Programming -22CS002)

S.No.	Practical	CLO Level
1.	Write a Program to show the use to input (Scanf)/output (Printf) statements and block structure of C-program by highlighting the features of "stdio.h".	CLO01
2.	Write a program to add two numbers and display the sum.	CLO-02
3.	Write a program to calculate the area and the circumference of a circle by using radius as the input provided by the user.	CLO-02
4.	Write a Program to perform addition, subtraction, division and multiplication of two numbers given as input by the user.	CLO-02
5.	Write a program to evaluate each of the following equations. (i) $V = u + at$. (ii) $S = ut+1/2at^2$ (iii) $T=2*a+\sqrt{b}+9c$ (iv) $H=\sqrt{b^2+p^2}$	CLO-02
6.	Write a program to swap two variable: a) By using temporary variable. b) Without using temporary variable	CLO-02
7.	Write a Program to find the greatest among three numbers using: - Conditional Operator - If-Else statement	CLO-03
8.	Write the following programs using switch case statement: - To check that an input alphabet is vowel or consonant - To check whether a number is positive, negative or zero	CLO=03
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9.	Write a program using while loop to print the sum of first n natural numbers.	CLO-03
10.	Write a program to check a number is Armstrong or not using For loop.	CLO-03
11.	Write the program to count the digits in a number and then print the reverse of the number also.	CLO-03
12.	Write a program to generate the Fibonacci series.	CLO-03
13.	Write a program to print the following patterns: a) * b) * * * * * * * * * * * * * * *	CLO-03

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14.	Write the program to print the following pattern: 1 2 3 4 5 6 2 4 6 8 10 12 3 6 9 12 15 18 4 8 12 16 20 24 5 10 15 20 25 30 6 12 18 24 30 36	CLO-03
15.	Write a program to check that the given number is prime, Armstrong or perfect using the concept of functions.	CLO-03
16.	Write a program to calculate the area and circumference of a circle using functions.	CLO-04
17.	Write a program to swap two variables using the concept of call by value and call by reference.	CLO-04
18.	Write a program to perform the following operations on 1D-Array: • Insert • Update • Delete • Display • Search	CLO-05
19.	Write a program to calculate the sum of array elements by passing it to a function.	CLO-04
20.	Write a program to show the use of passing pointer as arguments to the functions.	CLO-04
21.	Write a program matrix multiplication using the concept of 2D array	CLO-05
22.	Write a program to transpose a given matrix.	CLO-05
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23.	Write a program to find the factorial of a number by using the concept of recursion.	CLO-05
24	Write a menu driven C program to show the use of in-built string functions like strlen, strcat, strcpy, strcmp, strrev etc.	CLO-05
24	Write a Program in C to display the total number of appearances of a substring provided as input by the user in a given string.	CLO-05
25.	Write a program to display the sum of the digits of a number by using the concept of recursion.	CLO-05
26.	Write a C program to add two distances in inch & feet using the concept of structures.	CLO-05
27	Write a C program to add two complex numbers using the concept of structures in C.	CLO-05
28	Write a program in C to store the information of five employees using both concepts i.e. array of structure and array within structure.	CLO-05
29	Write a Program in C to store and retrieve the information about students of a university by using the concept of file handling.	CLO-06
30	Write a Program in C to find and replace a specific string in a file and also display the total number of appearances of that string.	CLO-06