

Annexure-1

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

S.No.	Practical	Lab No.
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".	1
2.	Write a program to add two numbers and display the sum.	1
3.	Write a program to calculate the area and the circumference of a circle by using radius as the input provided by the user.	2
4.	Write a Program to perform addition, subtraction, division and multiplication of two numbers given as input by the user.	2
5.	Write a program to evaluate each of the following equations. (i) $V = u + at$. (ii) $S = ut + \frac{1}{2}at^2$ (iii) $T = 2\sqrt{a+b+9c}$ (iv) $H = \sqrt{b^2 + p^2}$	3
6.	Write a program to swap two variable: a) By using temporary variable. b) Without using temporary variable	3
7.	Write a Program to find the greatest among three numbers using: <ul style="list-style-type: none"> Conditional Operator If-Else statement 	4
8.	Write the following programs using switch case statement: <ul style="list-style-type: none"> To check that an input alphabet is vowel or consonant To check whether a number is positive, negative or zero 	4
Lab Evaluation-I		
9.	Write a program using while loop to print the sum of first n natural numbers.	5
10.	Write a program to check a number is Armstrong or not using For loop.	5
11.	Write the program to count the digits in a number and then print the reverse of the number also.	6
12.	Write a program to generate the Fibonacci series.	6
13.	Write a program to print the following patterns: a) * b) *	7

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	7
15.	Write a program to check that the given number is prime, Armstrong or perfect using the concept of functions.	8
16.	Write a program to calculate the area and circumference of a circle using functions.	8
17.	Write a program to swap two variables using the concept of call by value and call by reference.	9
18.	Write a program to perform the following operations on 1D-Array: <ul style="list-style-type: none"> • Insert • Update • Delete • Display • Search 	9
19.	Write a program to calculate the sum of array elements by passing it to a function.	10
20.	Write a program to show the use of passing pointer as arguments to the functions.	10
Lab Evaluation-II		
21.	Write a program matrix multiplication using the concept of 2D array	11
22.	Write a program to transpose a given matrix.	11
23.	Write a program to find the factorial of a number by using the concept of recursion.	12
24.	Write a program to display the sum of the digits of a number by using the concept of recursion.	12