



SYMBIOSIS INSTITUTE OF TECHNOLOGY (SIT)

Constituent of Symbiosis International (Deemed University), Pune

(Established under Section 3 of the UGC Act of 1956 vide notification number F-9-12/2001-U-3 of the Government of India)

Re-Accredited by NAAC with 'A++' Grade

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Programming in C

Lab Journal

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SEM-II

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List of Experiments

Sr. No.	Title of Experiment
1	Design and develop a flowchart or an algorithm that takes three coefficients a,b and c of a quadratic equation ($ax^2+bx+c=0$) as input and compute all possible roots.
2	Write a C program for the developed flowchart/algorithm and execute the same to output the possible roots for a given set of coefficients with appropriate messages.
3	Write a C Program to relate two integers using =, > or < using nested ifs & multiple ifs.
4	Write a C program to find whether (using switch case) (a) A given number is prime or composite. (b) A given number is even or odd.
5	Write a C program to generate the Fibonacci Series for a given number 'n'.
6	Write a C program of binary search for a user-given element in a set of 'n' numbers.
7	Write a C program to perform matrix operations like addition, subtraction and transpose
8	Write a C program to accept a string from console and to display the following on console (without using built-in functions): (a) Length of the string (b) Total number of characters in the string (c) Total number of vowels in the string (d) Copy one string into the other.
9	Write a C program using functions to accept two strings from the console and perform the following operations (without using built-in functions): (a) Compare the strings: equal/not equal (b) Find the longer string. (c) Concatenate the two strings. (d) Find occurrence of substring in the main string
10	Write a C program using functions to accept a one-dimensional array of integers and sort them in ascending order.

11	Write a C program of selection sorting using functions.
12	Write a C program to find the factorial of a number using recursion
13	Write a C program using structures to print the pay slip of an employee after accepting details like id. no, name, designation, department and basic salary
14	<ol style="list-style-type: none"> 1. Write a program to demonstrate compile time memory allocation 2. Write a program to demonstrate runtime memory allocation
15	Write a C Program to demonstrate Structure pointer.

Prepared By:

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