

Computer Programming Lab

List of Experiments

1. Write the C programs to calculate the following
 - a) Area of triangle when sides are given.
 - b) Program for Type Casting. c) Interchanging values of two variables.

2. Write the C programs to perform the following
 - a) Conversion of Fahrenheit to Celsius and vice versa
 - b) Simple interest calculation
 - c) Square root of a given number

3. Write the C programs to perform the following
 - a) Read lower case character and convert into upper case.
 - b) Find maximum of 3 values using conditional operator.
 - c) Calculate area and perimeter of circle.

4. Write C programs for the following using decision making statements
 - a) Find roots of quadratic equation.
 - b) Find the max and min of three numbers using if-else.
 - c) Calculate the grades of a student.
 - d) Find the given year is a leap year or not.

5. Write the C programs to perform the following
 - a) Arithmetical operations using switch-case.
 - b) Read a number and display in reverse.
 - c) Check for Armstrong number property

6. Write the C programs to perform the following

- a) Find factorial of given number
- b) Check a number is palindrome property
- c) Generate Fibonacci series.
- d) Generate Prime numbers between two numbers. Implement the following using arrays
- a) Largest and smallest from a list of elements.
- b) Program for Linear Search.
- c) Program for Bubble Sort.

8. Implement the following using arrays

- a) Matrix addition.
- b) Matrix Multiplication.
- c) Transpose of a matrix.
- d) Program using string handling functions.

9. Write the C programs to perform the following

- a) Factorial using recursion and non recursion.
- b) GCD using recursion and non recursion.

10. Write the C programs to perform the following

- a) Find the sum and average of list of elements using DMA Functions
- b) Implementation of call by value and call by reference.

11. Write the C programs to perform the following

- a) Implementation of array of structure.
- b) Demonstration of Union.

12. Write the C programs to perform the following

- a) Write a C program to write and read text into a binary file using `fread()` and `fwrite()`
- b) Copy the contents of one file into another.
- c) Count the number of characters, words and lines in a file.