

# Computer Programming Lab

Prof. T. R. Mahore

- **Lab:** Cpmputer Programming Lab
- **Year:** 1st
- **Semester:** 1st/2nd
- **Section:** A/B

## Description

This Repo Contains all the theory and solutions of programs for the following listed practicals of **Computer Programming Lab**. You will find a **Lab Manual** in this repo, it is recommended that before running the provided solution codes directly, go through the lab manual serialy and then try to implement the codes.

## List of Practicals

Sr. No.	Practicals
1.	Fundamentals of Computer Hardware, Introduction to Programming Languages & Translators, DOS/UNIX commands
2.	Algorithms & Flowcharts, Introduction to C, History, Steps of 2 Learning C, C – Tokens, Data Types - Format Specifiers, I/O Statements, Structure of C Program, Sample C Programs
3.	Operators in C, their Precedence and Associativity, Arithmetic Expressions/ Instructions, Type Casting, math.h functions, Sample C Programs
4.	Control Statements (Conditional): If and its Variants, Switch (Break), Sample C Programs
5.	Goto Statement, Control Statements (Looping): While, DoWhile, For Loop, Continue and Break (Unconditional), Nested Loops, Sample C Programs
6.	Arrays, One Dimensional Array: Declaration and Initialization, Accessing Array Elements, Sample C Programs
7.	Two Dimensional Array: Declaration and Initialization, Accessing Array Elements, Sample C Programs
8.	Strings: Read & Write, “String.h” Predefined Functions, Sample C Progrmas
9.	Pointers: Declarations, Types, Pointers to Arrays, Pointers to Character Strings, Pointers to Pointers, Array to Poinnters
10.	Structures: Definition, Syntax, Nested Structures, Pointers to Structures, Unions: Defination, Syntax
11.	Functions: Definition, Syntax, Terminology, Function Decleration, Classification (Arguments & Return Types), Storage Classes, Sample C Programs
12.	Parameter Passing Techniques, Passing Parameters Types, Recursion
13.	Files: Definition, Opening, Closing of Files, Reading and Writing of Files, Sample C Programs
14.	Binary Files, Random Accessing of Files, Enum, Typedef, Preprocessor Commands, Sample C Programs