



“C” LANGUAGE

➤ **INTRODUCTION TO C LANGUAGE, VARIABLES, DATA TYPES AND OPERATORS:**

Introduction

History of C language

Basic Structure of C

Algorithms

Flow charts

Executing the C Program

Pre-processors in “C”

C Tokens

Variables:

Rules for defining variables

Scope and Life of a Variable

Data types

Type Conversion

Formatted Input and Output operations.

Operators:

Definition of Operator,

Operands-Arithmetic

Relational

Logical

Assignment

Conditional

Special

Bitwise

Increment / Decrement operator

➤ **WORKING WITH CONTROL STATEMENTS, LOOPS**

Conditional statements:

Introduction

If statements

If-else statements

nested if-else

Switch statements

break statement

continue statement

go to statement

return Statement.

Looping statements:

Introduction while statements

Do-While statements

For Statements (BTL-4)

➤ **FUNCTIONS, ARRAYS AND STRINGS**

Functions:

Definition and Declaration of Functions-

Function proto type

types of functions.

Built in functions:

Mathematical functions

String functions

Character functions

Date functions.

User defined functions:

Introduction

call by value

call by reference

Recursive functions.

Arrays:

Introduction of Arrays

One dimensional array

Two dimensional arrays

Multi dimensional array

String:

Declaring and initializing string

String Handling Functions

➤ **POINTERS, STRUCTURES AND UNIONS**

Pointers:

Definition of Pointer

Declaration of Pointers

Features of Pointers

Structures:

Definition of Structures

Declaring and initialization of Structures

Accessing Structures Members Array of Structures

Enumerated data type

Unions:

Definition and Declaring and initialization of Union

Comparison between Structure & Unions

➤ **OBJECT ORIENTED CONCEPTS USING C++**

Object Oriented Programming.

Introduction to Object Oriented Programming
Structure of C++
Simple program
C++— Storage Classes
Differences between C & C++
Object Oriented Concepts-Class
Object Inheritance
Polymorphism
Encapsulation
Abstraction



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