CLanguage



Data Types :-

- 1. Primitive Data type
- 1. Int
- 2. long Int
- 3. float
- 4. double
- 5. char

Data Types :-

- 2. Non Primitive Data types:-
- Derived data type
 - 1. Array
 - 2. Function
 - 3. Pointer
- User defined data type
 - 1. Structure
 - 2. Union

Types of Operators

Arithmetic operators: +,-,*,/,%

Increment / Decrement:

- 1. Pre increment
- 2. Post increment
- 3. Pre Decrement
- 4. Post Decrement

Types of Operators

```
Assignment Operator :- ==

Comparison Operator :- <,>,<=,>=,!=

Ternary Operator :- ?:

Bitwise Operator :- \((OR), &(AND)\)

Shift Operator:- << , >>
```

Types of Loops

Entry Control Loop

- 1. For Loop
- 2. While Loop

Exit control

1. Do while loop

Array

An array is a data structure that stores a collection of elements of the same data type in contiguous memory locations.

- Types of Arrays are:
- 1D single dimension
- 2D multi dimension

Function

A set of statement that when called perform some specific tasks.

Types of Function:-

- 1. With return type and with argument
- 2. With return type and without argument
- 3. Without return type and with argument
- 4. Without return type and without argument

Example:

```
#include <stdio.h>
int main() {
  int a = 10, b = 20, temp
  printf("Before swapping: a = %d, b = %d n", a, b);
  temp = a;
  a = b;
  b = temp;
  printf("After swapping: a = %d, b = %d n", a, b);
  return 0;
```