

C-01 \Rightarrow Introduction to Programming In C Language

Need of Programming?

* Sequence of instructions given to the computer to perform a task.

* Sequence or set of instructions are written in programs or codings.

* Computer runs by programs

Computer Language:-

* Computer understands only binary language. (0's and 1's)

* We have bunch of 0's + 1's like,
01001 010000 110000000 11111100 ...etc.

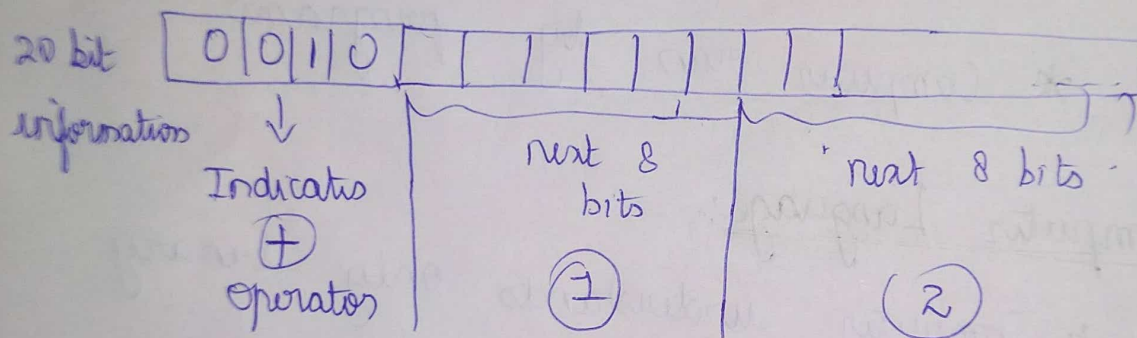
~~* So we learn Compiler understandable program like (Machine level languages, assembly level languages, High level languages) and~~

↑ This 0's and 1's are called Machine Level languages which follows some set of Architecture.

* Set of Architecture is machine dependant, each architecture follows different rules

§: CPU 1 Architecture

$1 \oplus 2 \Rightarrow$ Sum of 2 numbers.



1 \rightarrow 0000 0001

2 \rightarrow 0000 0010

* May be in some other CPU Architecture + operator will have another bit of information eg. 0001.

So from machine to machine program for addition or subtraction may differ.

* Here, machine level language is very difficult.

* To overcome these limitations, we learn high level language.

C Language Introduction:

* It was developed by Dennis Ritchie in 1972 at Bell Laboratories.

* B language is successor of C language.

* Kernel of UNIX operating system, Oracle, core libraries of android, major part of web browser, Device drivers like these many softwares are written in C language.

* 1989 C language was standardized by ANSI and called ANSI C.

Compiler:

Compiler converts C code to object code i.e., machine level code.

