**C Programming language**

|  |  |  |
| --- | --- | --- |
| Low level | Mid Level | High Level |
| It works on bits ,  pointers and  registors.  Eg. Cobol,pascal,  Fortan,assembly etc | It contains 50% features of low level and 50%  Features of high level.  Eg. C & C++ | They are machine independent and they  Follows another methodology like OOPs (object oriented programming ).  Eg. Java ,python C# etc |

1. Mother language
2. Mid level programming language
3. Procedure oriented programming. Language
4. Structured programming language
5. System programming language
6. Mother Language : most of the compilers ,JVMs and Drivers are written in c.

Desktop

(Binary 0 1 )

C code

(English)

Compiler

JVM : Java virtual machine (Major component of java which is responsible to run the java programs )

1. Procedural programming lang. : it follows some steps by step procedure to execute a program.
2. Structured programming language : it breaks the program into smaller blocks to solve a typical problem.
3. System programming language : Some operating systems can be written by c like Unix and we can also write the kernals in c.

History of C :

In 1972 at American telephone and telegraph (AT &T ) bells lab USA

Dennis Ritchie Developed the C programming language.

Environment Setup :

Desktop

(Binary 0 1 )

C code

(English)

Compiler

Text Editor :- Compiler :- Device (Terminal) :-

Eg. Notepad,Notepad++, GCC (GNU compiler command prompt,

Sublime,atom,brackets, collection) ,bcc powershell,Terminal

Vs code etc. onleinegdb compiler etc.

IDE : Integrated Development Environment ( ide = text editor + compiler + terminal + intellisence etc)

Eg. Turbo C/C++ ,code blocks, dev c/c++ , eclipse ,visual studio ( > 20 GB ) etc.

My Combination : VS code + GCC + powershell /cmd

For Begginers : dev c/c++ ,code blocks