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

1. Mother Language :   most of the compilers ,JVMs and Drivers are written in c.

C code
(English)

Compiler

Desktop
(Binary 0 1)
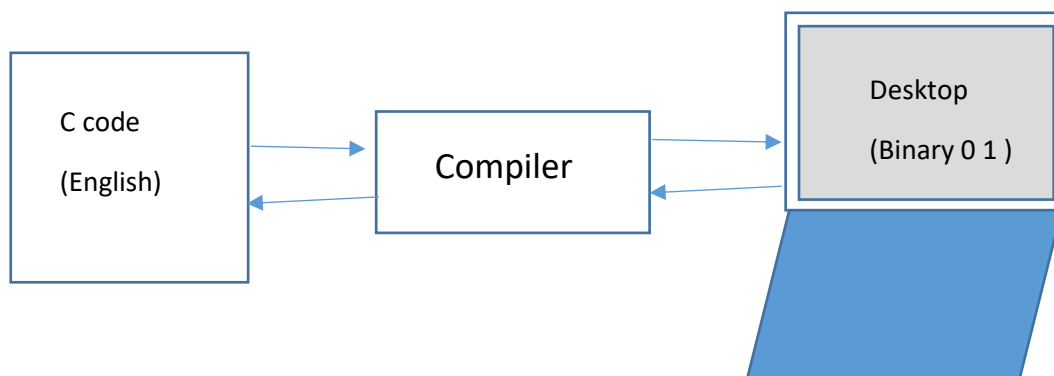
JVM : Java virtual machine (Major component of java which is responsible to run the java programs)

2.System programming language : Some operating systems can be written by c like Unix and we can also write the kernals in c.

3.Procedural programming lang. : it follows some steps by step procedure to execute a program.
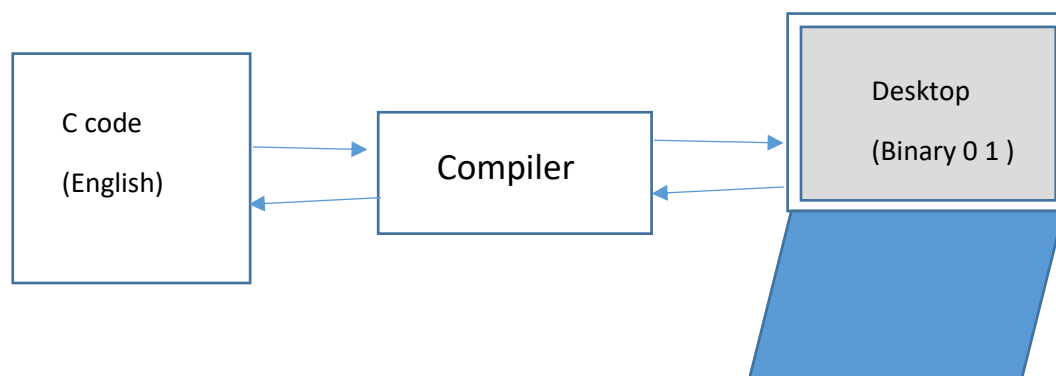
4.Structured programming language : it breaks the program into smaller blocks to solve a typical problem.

History of C :

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

Dennis Ritchie Developed the C programming language.

Environment Setup :

C code
(English) → Compiler → Desktop
(Binary 0 1)

Text Editor :-

Eg. Notepad,Notepad++,

Sublime,atom,brackets,

Vs code etc.

Compiler :-

GCC (GNU compiler

collection) ,bcc,MinGW,

onleinegdb compiler

Device (Terminal) :-

command prompt,

powershell,Terminal

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