**C Programming**

**Introduction**

* This is the mother language of all the other languages like C++ , JAVA , Python .
* C is a structured oriented language unlike C++ , C# and JAVA .

**Reasons of studying C in the age of OOP languages**

* C is faster
* Major parts of Operating systems like Windows , UNIX , Linux and Android are written in C .
* All the device driver programs are exclusively written in C
* Embedded programs in Consumer devices like microwaves , Ovens are written in C .
* Popular gaming Frameworks like DirectX are written in C .
* C provides various language elements that make one to have very close interaction with hardware devices .
* It provides good base for learning other modern languages like C++ , C# , JAVA etc.

**Specialities :-**

* Time and memory efficient.
* Can Interact with hardwares very closely .

**Important terms and definitions : -**

* Keywords -> words which carry special/fixed meaning . Its meaning is already been explained to the compiler/computer .
* There are 32 keywords available in C .
* Semicolon ‘;’ acts as the statement terminator .
* In main() function returning 0 means success .
* **#include** is a **preprocessor directive**
* %d , %c , %fare the **format specifiers**
* **Compiler** converts the the high level language to **machine language**
* **&(ampersand)** is ‘ Address of ’ operator . It gives location number(address) used by the variable in memory
* Variables are the **names given to memory locations .**