

C is used to build operating systems because it provides low-level access to memory and hardware.

2. Embedded Systems:

C is the most common language for programming microcontrollers and embedded devices.

3. System programming:

C is used to develop system-level software.

4. Game Development:

C is used in game engines where high performance is required.

5. Database Systems:

Core parts of several databases are written in C.

6. Networking and Communication:

C is often used to build network tools and protocols.

7. portable Applications:

OPPO F27 5G programs can be compiled for many platforms, making it ideal.

3) What is Variable?

→ A variable is a symbol or name that represents a value that can change.



1. Math :-

A variable is a letter used to stand for an unknown or changeable number.

$$\text{Ex: } x + 5 = 1$$

2. Programming :-

A variable is a named storage location in memory that holds data, and its value can change while the program runs.

3. Science :-

A variable is any factor that can change in an experiment.

* Independent Variable : you change it

* Dependent Variable : you measure it

* Controlled Variable : you keep it constant

5) What is format Specifier?

→ A format Specifier is a placeholder used inside a formatted string to tell the Compiler or interpreter.

→ format Specifiers are used in languages like C, C++, Java, python etc.

* In C/C++

common format Specifiers:

Specifier	Meaning	Example
%d	Integer (decimal)	10
%f	float double	10.50
%.2f	float with 2 decimal places	10.50
%c	character	A
%s	string	Hello
%u	unsigned integer	20
%ld	long integer	1234
%p	pointer address	0x7ff

If you'd like, I can also give

examples in a specific language - C,

1) What is C language?

- Ans: → C is a general-purpose, procedural computer programming language.
- It was developed in the early 1970s by Dennis Ritchie at Bell Labs.
- C is known for being efficient, fast, and providing low-level memory access.
- It is a popular choice for developing operating systems, software systems and various applications.
- It has influenced many other programming languages, including C++, C#, and Java.
- By design, C gives the programmer relatively direct access of features of the typical CPU architecture.

2) What are Applications of C program

- A) → C is one of the most widely used programming languages, and its applications span many fields because it is fast, efficient, and close