

## 1.What is c language?

Ans:c language is a powerful general purpose programming language is used for system and application development

→it provides low level access to memory and is known for its speed and efficiency

→c is the foundation for many modern languages like c++,Java,python

## 2.what is the applications of c language?

Ans:C language is used to develop operating systems, embedded systems, and compilers.

It's widely applied in game development and system-level programming.

C also forms the foundation for modern languages like C++, Java, and Python.

## 3.what is variables?

Ans:A variable is a name used to store data in a program.

It acts as a container that holds values which can change during execution.

For example, x = 5 — here x is a variable storing the value 5.

## 4.what are different types of c programming?

Ans:C programming has three main types based on how code is organized and executed:

1. Procedural Programming – Focuses on functions and step-by-step procedures.
2. Modular Programming – Divides code into separate modules for better organization.
3. Structured Programming – Uses loops, conditionals, and functions to improve clarity and reduce complexity.

## 5.what is format specifier?

Ans:A format specifier is a symbol used in programming to define the type of data to be displayed or printed.

It tells the compiler how to format the output (like integer, float, or character).

Example: %d for integers, %f for floating-point numbers, %c for characters, and %s for strings.