

1) C is a powerful, general-purpose, and procedural programming language developed by Dennis Ritchie at Bell Labs in the early 1970s. It was initially designed for developing the UNIX operating system and has since become a foundational language in computer science.

2) C programming is one of the most widely used and foundational programming languages in computer science. It is known for its efficiency, speed, and control over hardware, making it ideal for many real-world applications.

3) A variable is a container for storing data values that can be used and modified in a program.

4) In C programming, a data type defines the type of data that a variable can store - such as an integer, a floating-point number, or a character.

1. Primary Data types

These are the fundamental data types built into the language.

2. Derived Data types

These are created using the basic data types.

3. Enumeration Data type

Used to assign names to integer constants, making code more readable.

5) In C programming, a format specifier is a special code used inside functions like printf() and scanf() to tell the compiler what type of data you want to print or read.