

1) What is C language?

Ans:- C is a structured, general-purpose programming language developed by "Dennis Ritchie". It provides low-level memory access and high performance, making it widely used for system software like operating systems and embedded systems. It also forms the foundation of many modern languages.

2) What are the applications of C language?

Ans:-

- i) Operating System Development
- ii) Embedded systems and IOT Devices
- iii) Compilers and Interpreters
- iv) Database systems
- v) Game Development and Graphics

3) What is Variable?

Ans:- A variable is a storage container in a program that holds a value which can change while the program runs.

Ex:- PYTHON

age = 25

Here, age is a variable, and it stores the value 25. Later we can change it to 30 or any other number.

4) What are different data types of C program?

Ans:- 1) primary data types :-

int (integers), float (decimal numbers), double (big decimal numbers), char (characters), and void (no value).

2) Derived data types :-

Arrays, pointers, structures and unions.

3) User-defined data types :-

Created by users, such as struct, union, enum, and typedef.

Eg:- int age = 25; // integer
float price = 99.5; // decimal
char grade = 'A'; // character

5) What is format specifier?

Ans:- A format specifier in C is used to specify the type of data being printed or read using printf (or) scanf. For example, "%d" used for integers, "%f" for floats, "%c" for characters, and "%s" for strings.