* What is the scope of variables in C++? Differentiate between local and global scope
* **Scope of Variables in C++**

**The scope of a variable in C++ refers to the part of the program where the variable is accessible or can be used. It determines the lifetime and visibility of a variable**.

Local Scope:

* A **local variable** is declared **inside a function, block, or loop**.
* It **can only be accessed within that block**
* It **ceases to exist** once the block ends.

Global Scope:

* A **global variable** is declared **outside of all functions**, usually at the top of the program.
* It can be **accessed by all functions** in the same file.
* it **exists throughout the program execution**.