- · Developed By Bjarne Strouetrup
- " Initially known as "C with classes" and was remained C++ in 1983.
- · Used cas a starting point
- · Main sources for ideas for C++ was C, Simula, Algol 68, BPCL, Ada, ML, etc
- · Versione of C++: C++98, C++03, C++11, C++14, C++17, C++20
- " C++ is a general purpose programming language that was developed as an enhancement of the C language to include object-oriented paradigm.
- · It is an imperative and a compiled language
- · Middle level language advantage of programming low level (drivers, kernels) and higher-level applications (games, COUT, desktop apps)
- · Basic syntax and code structure of both Cand C++ are sans

Features of C++

- · Simple: It is a simple language in the sense that programs can be broken down into logical units and parts, has a rich liberary support and a variety of data types.
 - Machine independent leut Platform dependent:

 A C++ executable is not platform independent (compiled programs on linux won't sten on Windows), housever they are machine independent.

- . Mid-level language: We can do both system programming (drivers, kernels, networking) and build large scale user applications (Media players, photoshop, Grame engines)
- · Rich lilerary support: Buildin data structures, algorithms and 3rd party libraries for fast and rapid development
- · Speed of execution: C++ programs excel in execution speed.
- · Pointer and duct memory-access: C++ provides pointer support which aids users to directly manipulate Storage address. This helps in doing low level programming.
- · Object-oriented: Delps to make maintainable and extensible programs
- · Compiled language: C++ is a compiled language

Applications of C++

- · Operating systems and systems programming (Linea bandos)
- Browesers (Chrome and Firefox)
- Graphics and Game engines (Photoshop, Blender, Unreal engine)
- Database engines (MySQL, MongoDB, Redis)
- Cloud/Distributed Systems