**Name : ADERIBIGBE ADEWALE DAVID**

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**Question**

With the aid of a diagram, describe how a C++ code can be converter to Machine Language code.

**Answers**

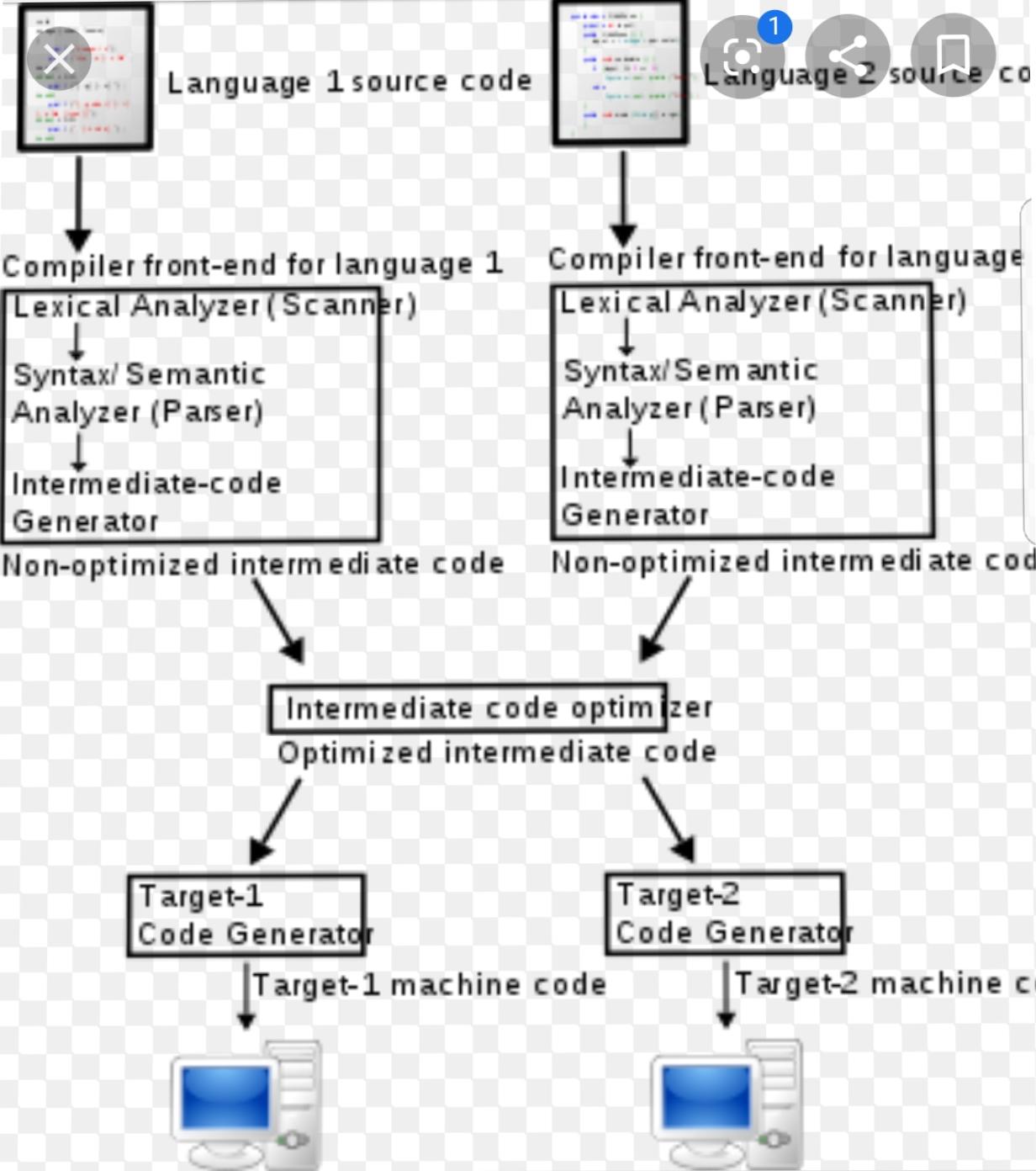
**Programming Process**

Computers do not understand human languages. In fact, at the lowest level, computers only understand sequences of numbers that represent operational codes (op codes for short). On the other hand, it would be very difficult for humans to write programs in terms of op codes. Therefore, programming languages were invented to make it easier for humans to write computer programs.

Programming languages are for humans to read and understand. The program (source code) must be translated into machine language so that the computer can execute the program (as the computer only understands machine language). The way that this translation occurs depends on whether the programming language is a compiled language or an interpreted language.

**C++ code to machine code**

The following illustrates the programming process for a compiled programming language.



A compiler takes the program code (source code) and converts the source code to a machine language module (called an object file). Another specialized program, called a linker, combines this object file with other previously compiled object files (in particular run-time modules) to create an executable file.