7. From assembly to modern software

Assembly is hard to write

- Writing CPU instructions by hand is hard

- Writing Python is easy (or at least not as hard as assembly)

- Idea: write high-level programming languages in assembly, which are compiled to machine code. Then we never have to write assembly again!

High-level compiled programming lang (e.g., C, C++, Rust) → Compiler → Machine code (zeros and ones, not assembly)