How the C++ Compiler Works



- The comiler needs to take the text file and convert it into obj files
 - Needs to preprocess the statements
 - o tokenize and parsing the c++ language into a compiler format
 - Representation of the code
 - o The job is to convert into a const data or instruction
 - o After that it can begin understand the code
 - o File is a way to feeder the compiler
 - o # include
 - The compiler reads the file, and add it wehreyou want to use it
 - There is no example with end braces, just need to incude and it put it there
 - Open the file, copy the content and put it in place
 - Once the pre process is done, we can translate to machine code
 - What is inside na .obj file
 - The machine code the compiler will going to run
 - we got a bunch of assembly instrunctions
 - o Compil optimize the code, and that is gerat
 - o Not sure how to enable it in VSCode and cmake
 - TODO

Key Differences Summary

Feature	#include <filename></filename>	#include "filename"
Search Order	System paths first	Local directory first, then system paths
Typical Use Case	Standard & system headers	Custom project headers
Example Usage	<pre>#include <vector></vector></pre>	#include "MyClass.h"