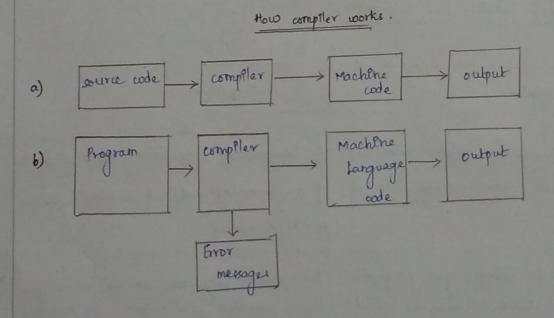
## Assynment

compiler and interpretar:

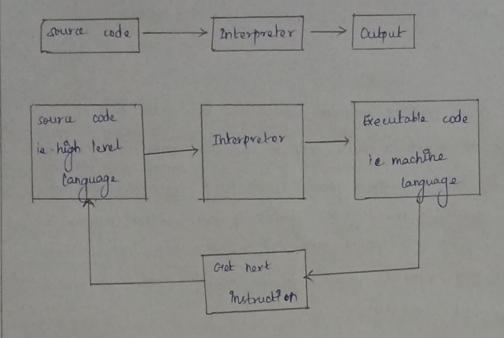
## compiler :

A compiler is a software program that follows the syntax sule of programming language to convert a source code to machine code. It cannot fix any error if present in a program, it generates an error message, and you have to correct it yourself in the program's syntax. If your willten program is correct, then the compiler will convert your entire source code into machine code. A compiler converts complete source code into machine code at once. And finally, your program get excutes.



## Interpreter:

An interpreter is also a software program that translates a source code into a machine language. However, an interpreter converts high-level programming language into machine language time by-line while interpreting and running the program.



difference between compiler and interpreter:

	Compiler	Interpretar
	A compiler translates comptate high-level programming code into machine code at once	An interpreter translates one statement of programming code at a time into machine code,
+	If you want to charge your program for any reason, either by error or logical changes, you can do it only by going back to your source code.	Interpreted programe can run on only those computer which have the same Interpreter.
	It stores the converted machine code from your source code program on the disk.	It never stores the machine code at old on the disk.

\* A compiler takes an enourmous time to analyze source code However, overall compiled programming code runs faster as compression However, overall interpreted programming to an interpreter.

An interpreter takes less time to analyze source code as compared to a compler code our slower as compression to the compller.

- " The compiler generates aroutput of a program [the form of an exe file] that can run separately from the source code
- The Interpreter doesn't generate a separate machine code as an output program. so It chacks the source code every time during the execution.
- \* The process of program execution takes place separately from its compilal for process program executes only takes place after the complete program is compiled.
- The process of program execution is a part of Interpretation steps, so it is done like by line amultaneously.
- \* A compiled program is generated into an Intermediate object code, and it further regulared linking. So there is a requirement for more memory.
- An Interpreted program does not generate an intermediate code so there s no requirement for entra mamony