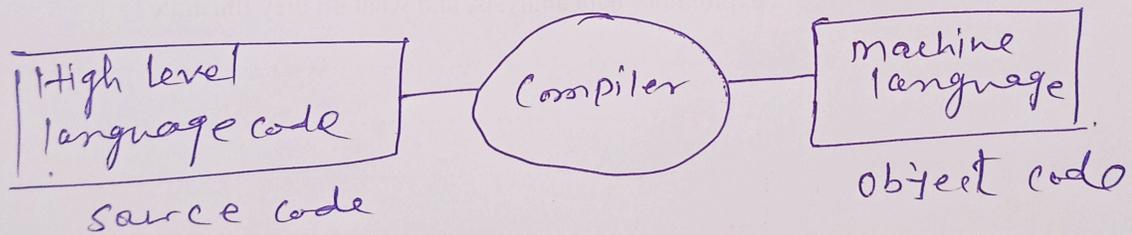


UNIT-3

What is compiler?

A compiler is a software that takes a high level language code as input and converts the input to a lower level language at once. It lists all the errors if the input code does not follow the rules of its language. A program which is input to the compiler is called source program. This program is now converted to a machine level language by a compiler is known as the object code.



A compiler can translate only those source programs which have been written in the language for which the compiler is meant. Each high level programming language requires a separate compiler for the conversion.

For example, A Fortran compiler is capable of translating a Fortran program. A computer system may have more than one ^{compiler to work for more than one} high level ^{language} languages.

Compiler Design Phases:

The compilation process is a sequence of various phases. Each phase takes input from its previous stage, has its own representation of source program, and feeds its output to the next phase of the compiler.

