UNIT - 1

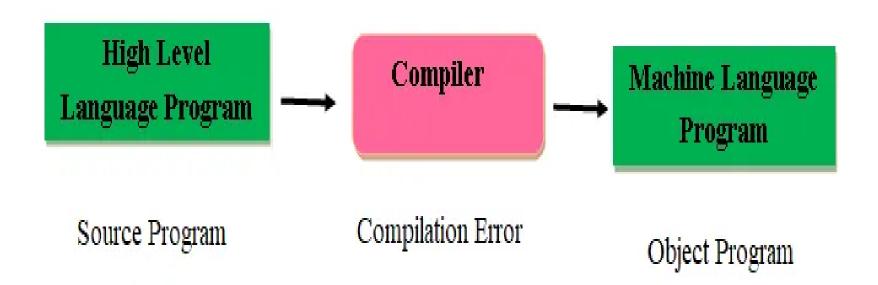
CD (Compiler Design)

What is Compiler?

Compiler is a software which converts a program written in high level language called Source Language to low level language (Object/Target/Machine Language).

It can be shown with the help of following diagram:

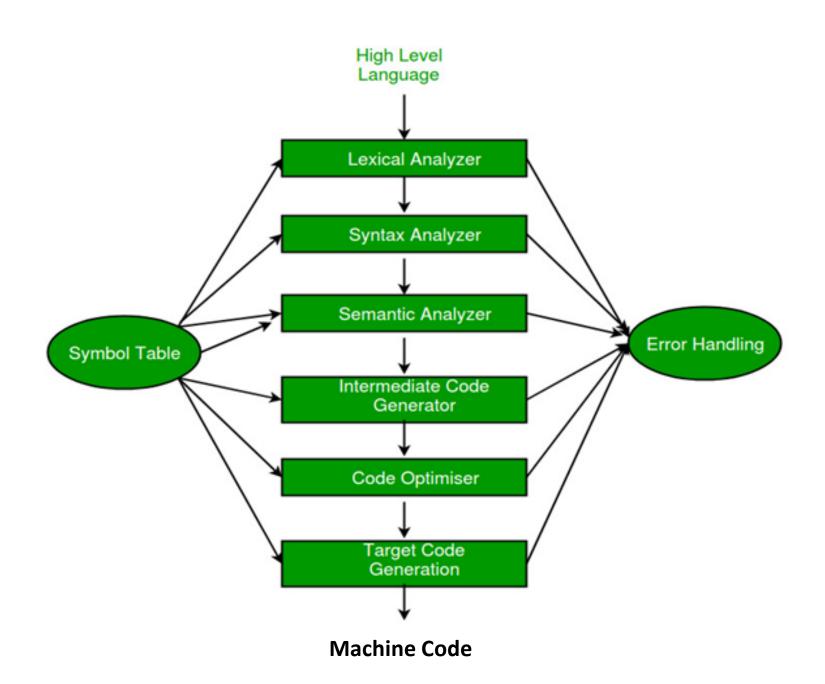
How Compiler Works



Phases of a Compiler

There are two major phases of compilation, which in turn have many parts. Each of them take input from the output of the previous level and work in a coordinated way.

- Analysis Phase An intermediate representation is created from the give source code:
- **Synthesis Phase** Equivalent target program is created from the intermediate representation.



Analysis Phase includes:

- Lexical Analyzer
- Syntax Analyzer
- Semantic Analyzer
- Intermediate Code Generator