

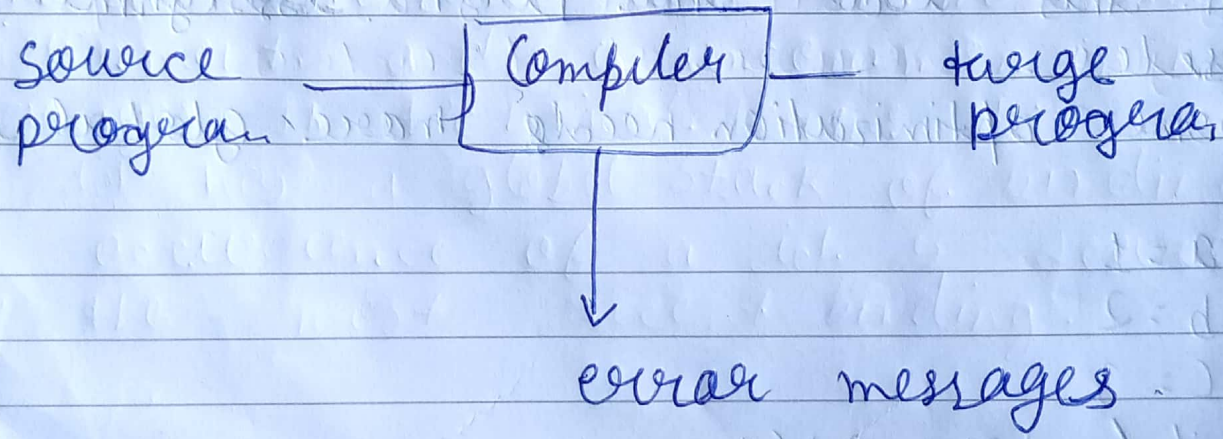
3.

Analysis and Synthesis are the two parts of compilation.

The analysis part breaks up the source program into constituent pieces and creates an intermediate representation of the source program.

The synthesis part constructs the target program from the intermediate representation.

Simple stated a compiler is a program which reads a program written in one language the source language



1. The Analysis synthesis
2. Analysis of the source program
  - (i) Lexical Analysis
  - (ii) Syntax Analysis
  - (iii) Semantic Analysis

### 3. The Phases of a Compiler:

- (i) Symbol-Table management.
- (ii) Error Detection and Reporting
- (iii) The Analysis Phase.
- (iv) Intermediate code generation
- (v) Code Optimization.
- (vi) Code Generation.

### 4. Causing of the Compiler.