



SNS COLLEGE OF TECHNOLOGY



Coimbatore-36.

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A+’ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

COURSE NAME : Automata Theory and Compiler Design
III YEAR/ V SEMESTER

UNIT – II INTRODUCTION AND LEXICAL ANALYSIS

Topic: Introduction to Compiling and Compiler

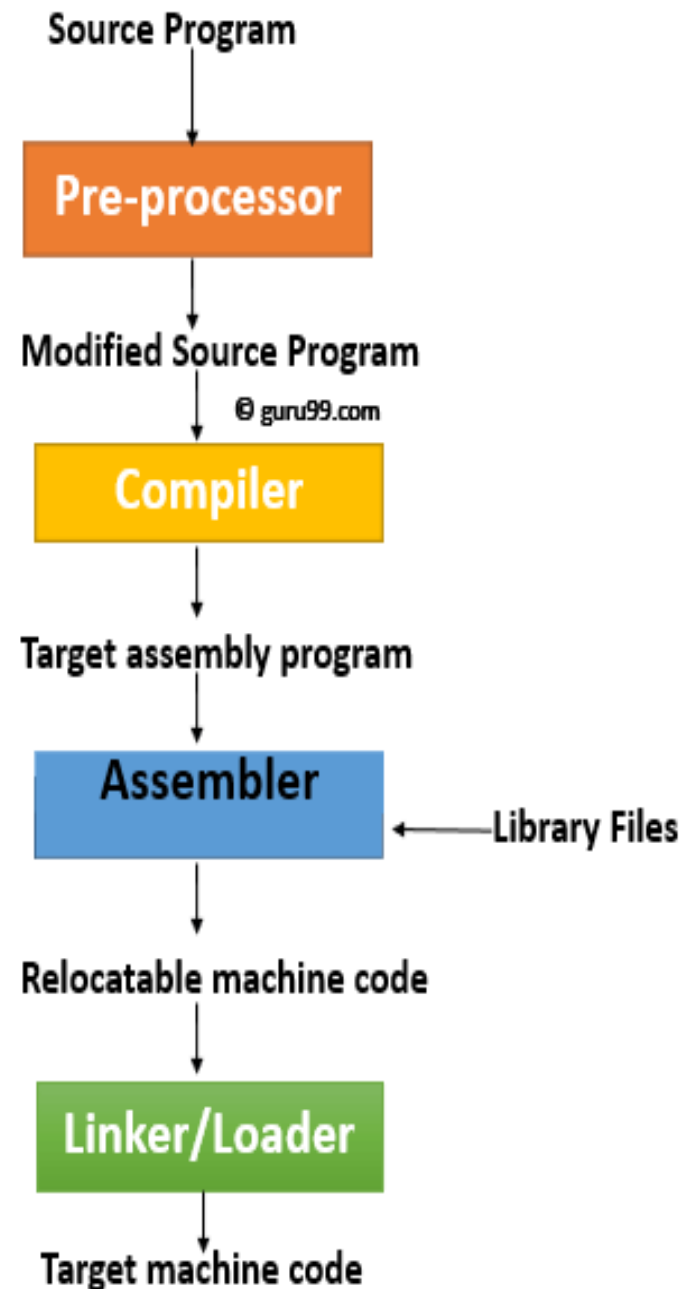
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Assistant Professor

Department of Computer Science and Engineering

Cousins of Compiler / Language Processing System

**Preprocessor
Compiler
Assembler
Linker**





Introduction to Compiling

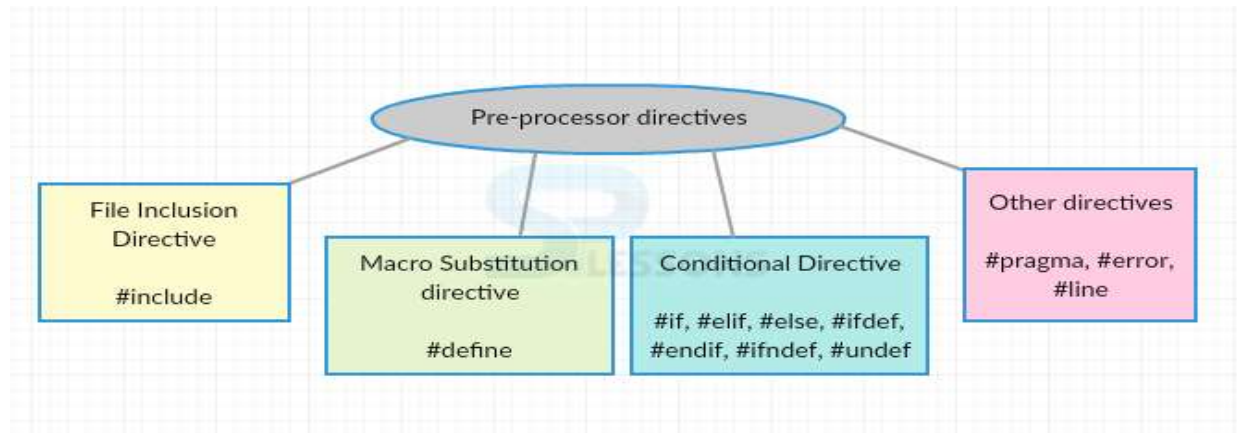
Preprocessor

- Preprocessor processes source program before it is passed to compiler.



- Produce a source code file with the preprocessing commands properly sorted out.

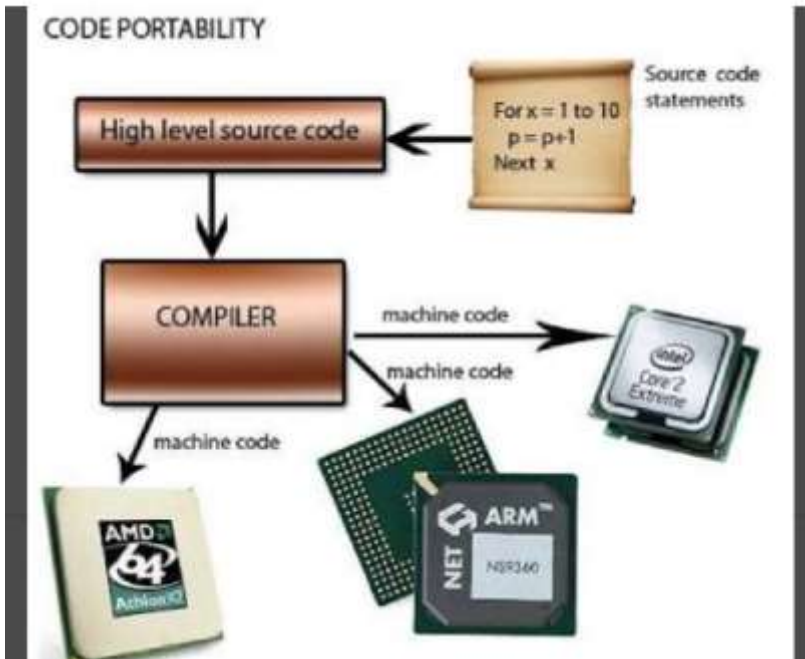
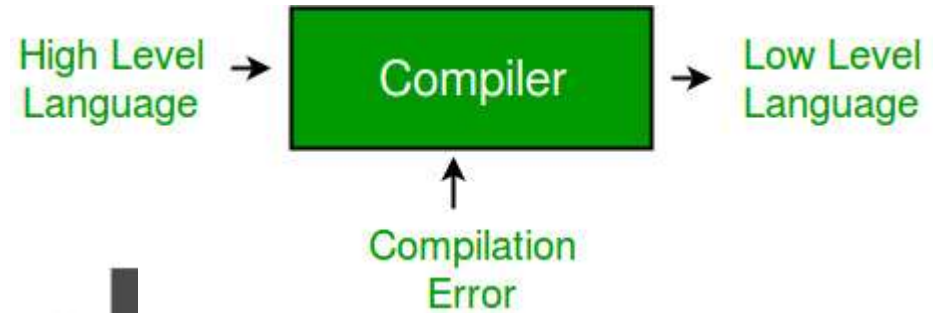
Pre-processor Directives





Introduction to Compiling

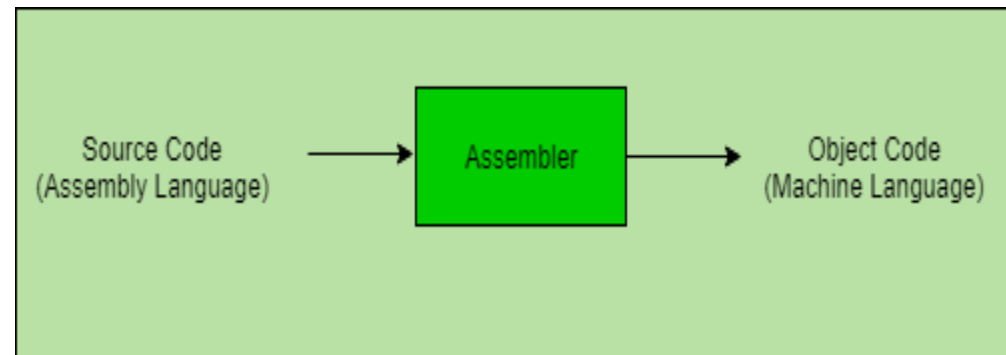
- Compiler



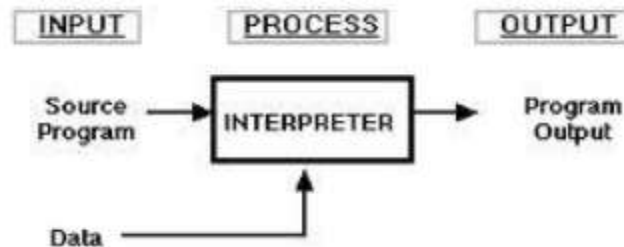


Introduction to Compiling

- Assembler - Translate the program written in Assembly language into machine code



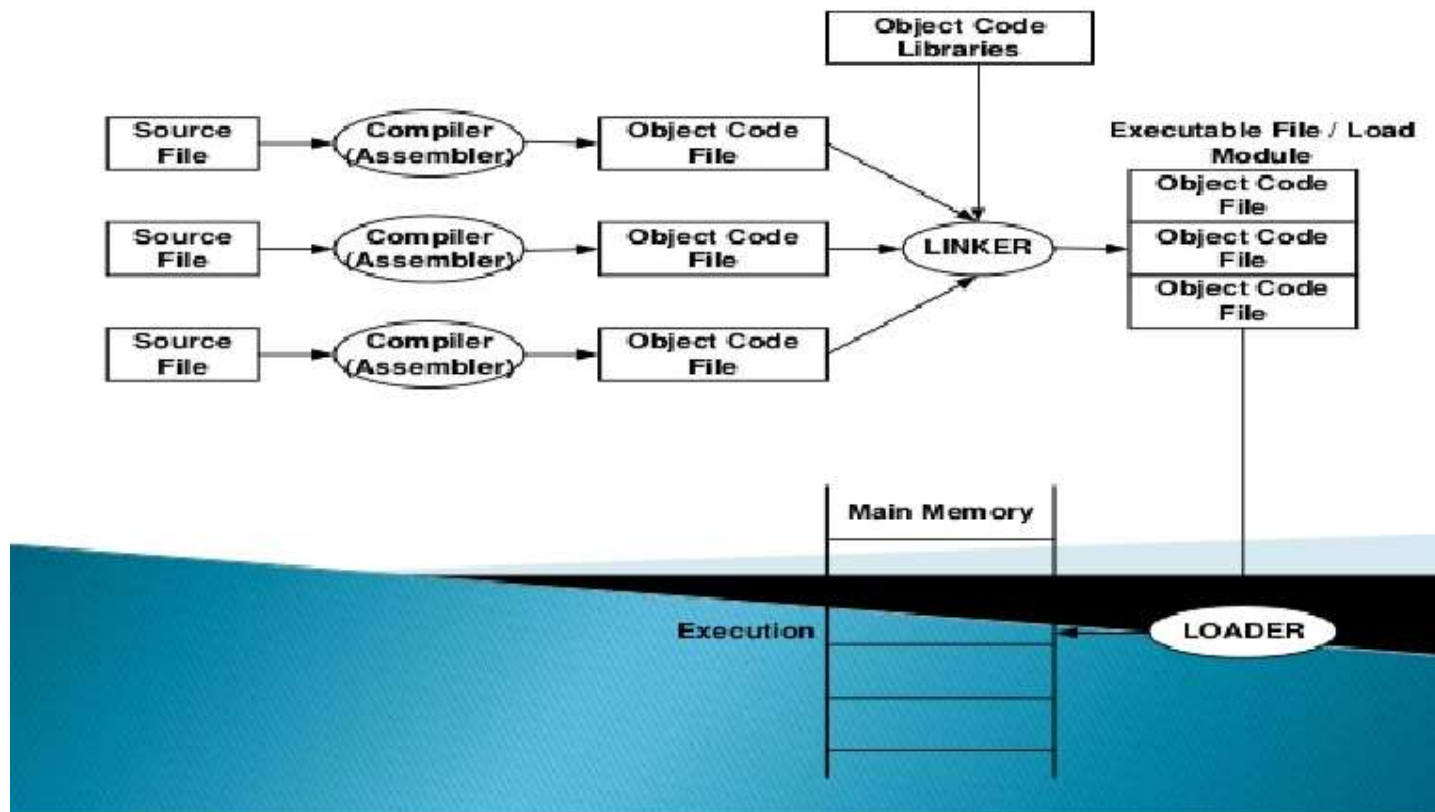
Interpreter



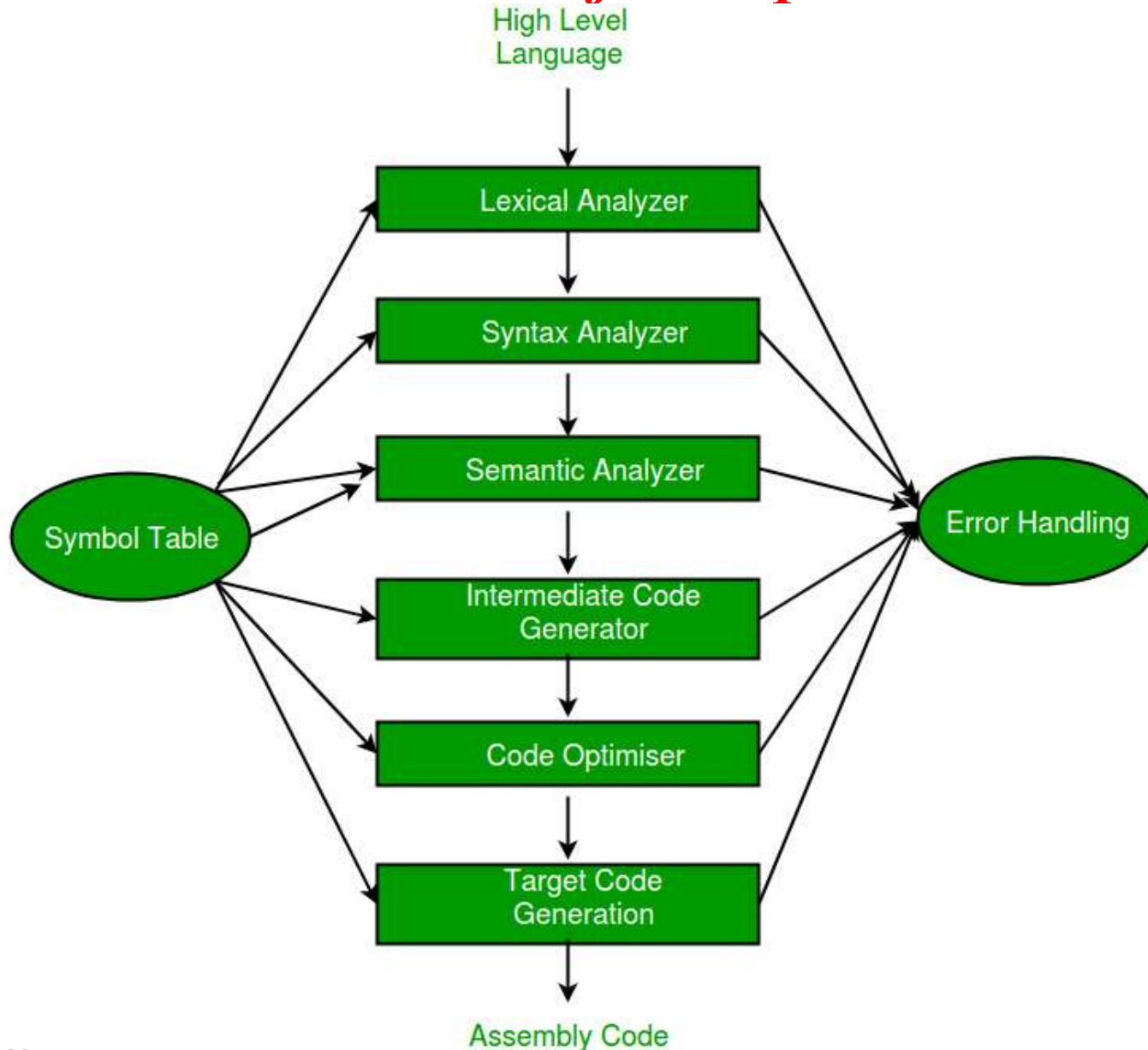


Introduction to Compiling

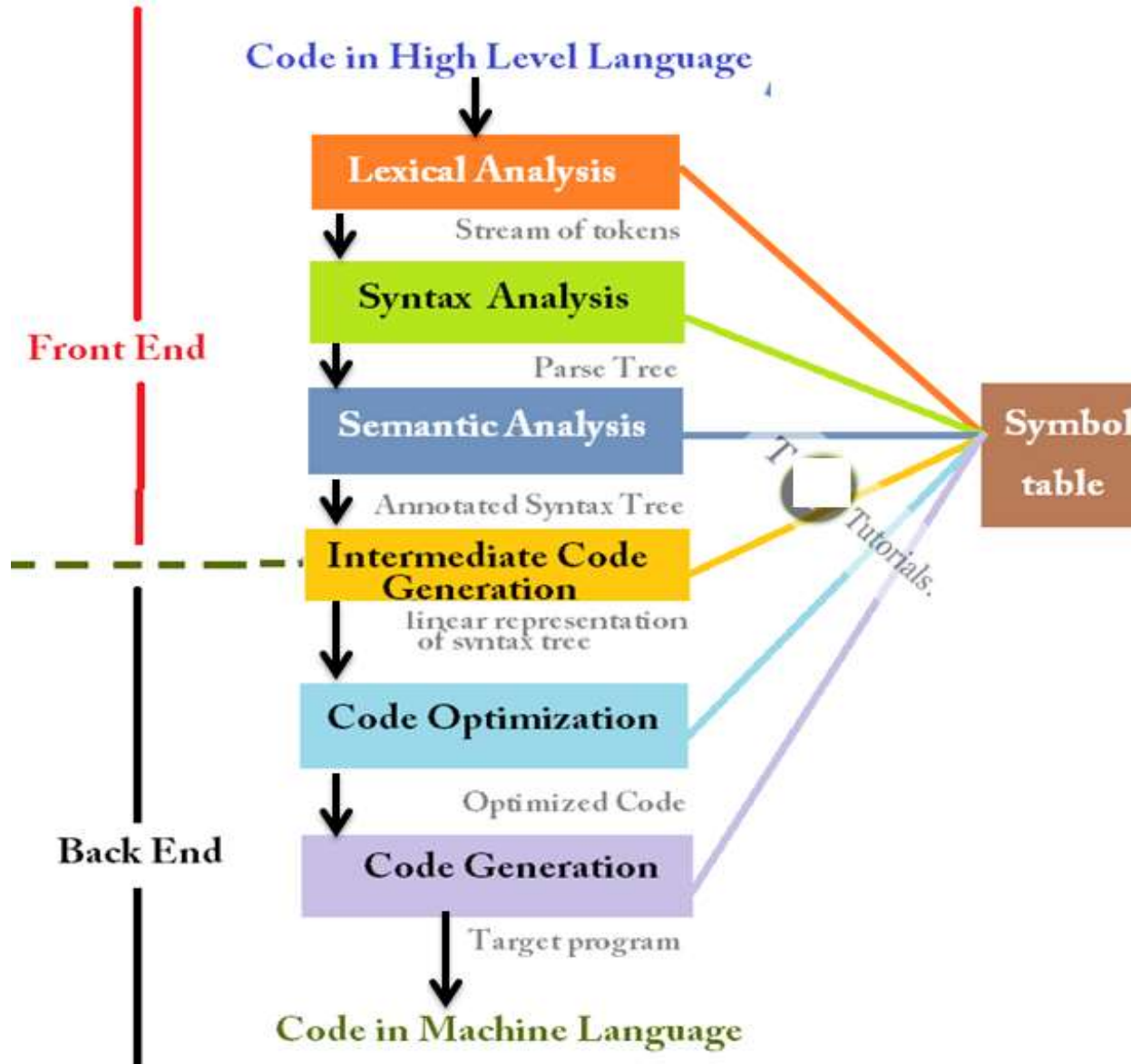
- Loader & Linker



Phases of Compiler



Phases of Compiler



References

- John E. Hopcroft and Rajeev Motwani and Jeffrey D. Ullman, “Introduction to Automata Theory, Languages and Computation”, Second Edition, Pearson Education, New Delhi, (2007) (UNIT-I)
- Linz P. An introduction to formal languages and automata. Sixth edition, Jones and Bartlett Publishers; 2016.(UNIT-I)
- [Ramaiah k. Dasaradh](#) “Introduction to Automata and Compiler Design “ First Edition ,Prentice Hall India Learning Private Limited(2011)(UNIT-I to V)