

Introduction to Computer

Lecture #30



Language Processor



Topics

- Language Processors
 - (1) Compiler
 - (2) Interpreter
 - (3) Assembler
- Difference between Compiler and Interpreter
- Revision of all covered topics .

Language Processor

- Language Processor is also known as **translator**.
- Computer understand only machine language.
- A program written in high-level or assembly language can't be run on a computer directly.
- It must be converted into machine language before execution.
- Language Processor or translator is a software

Continue.....

- Language Processor or translator is a software that converts these programs into machine language.
Every computer language has its own translator.

Three language Processors

- **(1) Compiler:-**

A Compiler is a program that converts the instruction of a high level language Into machine language as a whole.

A program is written in high level language is called source code or source program.

Compiler also checks syntax errors in the program.

(2) Interpreter

- (2) **Interpreter:-**

An Interpreter is a program that converts one statement of a program at one time.

It executes this statement before translating the next statement of the source program.

Error is found immediately in interpreter .

(3) Assembler

- o **(3) Assembler**

An Assembler is translating program that translates the instruction of a assembly language into machine language.

Assignment

- Assignment

One page only.

- **Difference between Compiler and Interpreter.**

BEST OF LUCK