

# Introduction to Computer(01103)

## Lecture # 06

### Computer Programming Languages

# Programming Languages

- Low-Level Languages
- High-Level Languages
- Difference Between Low-Level Languages  
High-Level Languages
- Natural Programming Languages

# Programming Languages Topics

A set of words, symbols and codes used to write programs is called program language . Different programming languages are available

for writing different types of programs .Some Languages are specially used for writing Business programs, others are used for writing Scientific programs etc.

# types

- There are two types of Computer programming languages.
- (1) Low-Level Languages
- (2) High-Level Languages

# (1) Low-Level Languages

- These Languages are near to computer hardware and far from human languages.
- Computer can understand these languages easily.
- Writing a program in low-Level Languages requires a deep knowledge of internal structure of computer hardware.

# Types of Low-Level Languages

- (1) Machine Language

Machine Language are also known as Binary coded Language or Native Language , it is in 0 or 1 form.

- (2) Assembly Language

Assembly Language is also known as symbolic language .Symbols are used in Assembly Language. These symbols are called mnemonics.

# Assembly language

- Examples
- MOV
- ADD
- SUB
- MUL

# High-Level Languages

- A type of language that is very close to human languages is called high level languages or 3GL.
- Here 3GL stands for 3rd Generation languages.
- In these languages ,program is a predefined set of instructions.



# Examples of High-Level Languages

- 1) FORTRAN
- 2) BASIC
- 3) COBOL
- 4) PASCAL
- 5) C

# Types of High-Level Languages

- 1) Procedural languages
- 2) Non-Procedural languages
- 3) Object- Oriented languages

# Best of Luck

- Course Instructor



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