

What is programming?

Programming is the process of writing a sequence of instructions to be executed by a computer to solve a problem. Computer programming has many facets: It is like engineering because computer programs must be carefully designed to be reliable and inexpensive to maintain. It is an art because good programs require that the programmer use the intuition and a personal sense of style. *Programmers*, people who write programs using different programming language to communicate instructions to the computer.

Computer Languages/Programming languages

The programmer communicates with a machine using programming language. Computer language is a set of instructions used for writing computer programs. There are many different classifications of programming languages and these programming languages differ in the way they are structured. Most of the programs have highly structured set of rules. These primary classifications of programming languages are:

- Machine language
- Assembler language
- High-level language

Machine level is a binary programming language that the computer can run directly. It does not need a translating program. Programs are written at the most basic level of operation. Machine language is called a low level language. Instructions are coded as a series of 1's and 0's.

Machine language programs are cumbersome and difficult to write. The machine language is native to that machine and understood directly by the machine. The machine language generally has two parts:

OPCODE	OPERAND
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Operation code

The OPCODE of the machine language tells the computer the type of operation (function) to be performed. E.g reading the contents of a word, moving a value into a CPU's register, adding some value into a register etc

Operand

The OPERAND gives the data on which the operation has to be performed or tell the location where the data can be found. It may be:

- An address of byte or word in memory or,
- A reference to a CPU's register.

Example:

Assume the operation code for reading is 10110111, for adding is 0011101100, for moving is 01001010, while for storing (writing) is 11011011.

Computer Fundamentals And Programming

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