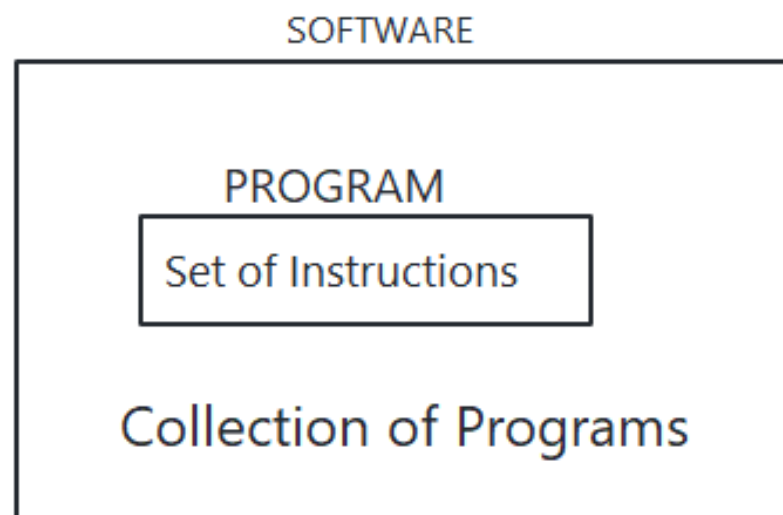


MLL/BL - Machine Level Language or Binary Language

ALL - Assembly Label Language or Low Level Language

HLL - High Level Language



How can a normal human speaks Binary language ? Is it possible ?

Yes, we can but it is very complex to understand and wrtie

Need more information about binary language then follow the below page

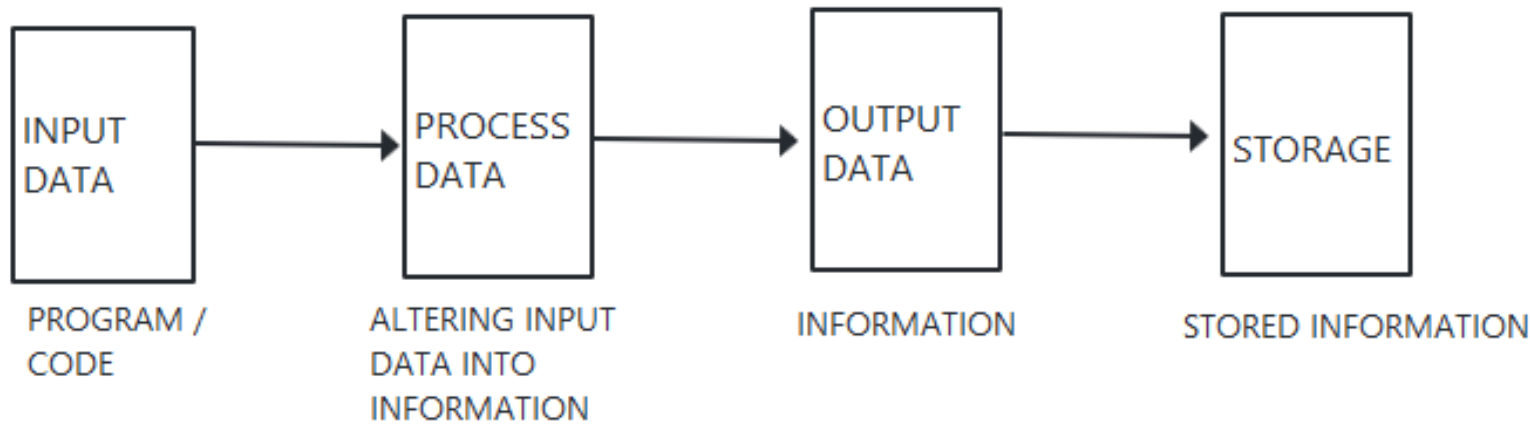
<https://www.instructables.com/Learn-to-talk-Binary-The-efficienthard-way/>

DETAILED VIEW

HOW COMPUTER PROCESS THE DATA ?

What is Data ?

- Units of information. In computing there can be different data types, including integers, characters and boolean. Data is often acted on by instructions

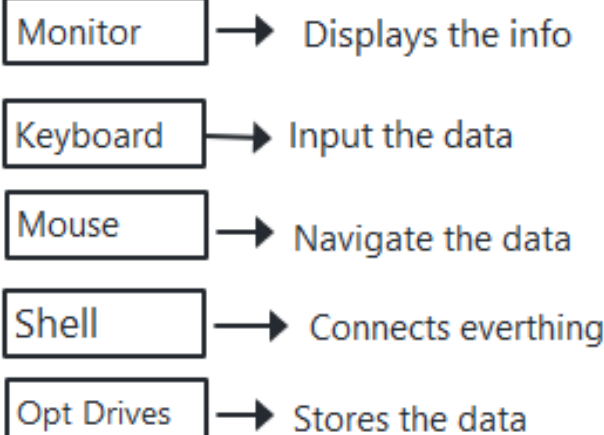


Why we use computer to process data ?

MIPS (Millions of instructions per second) is a unit of measurement - Process data

All the data in a computer system consists of binary information

ANATOMY OF COMPUTER



Sometimes binary information is also referred to as Machine Language

At a physical level, 0's and 1's are stored in the CPU of a comp sys using transistors

Transistors are microscopic switches that control flow electricity

- if a current passes through the switch is open this represents as 1
- if a current doesn't pass through the switch is open this represents as 0

Binary info can also be transmitted by using magnetic properties with the two different polarities are used to represent 0's and 1's

An Optical disk, such as a CD-ROM or DVD also stores binary info in the form of pits and lands

Bit (0 or 1)

Each Binary digit in short is known as "BIT"

In order to make sense for binary information we need a "binary notation method" to refer as a binary code

For example,

- two bits represent four different values : 00,01,10,and11
- three bits represent eight different values : 000,001,010,011,100,101,110,0111
- **similarly n bits represent 2^n different values**