

HIS₃BO₃-INFORMATICS AND HISTORY

MODULE-1

TOPIC-HARDWARE & SOFTWARE

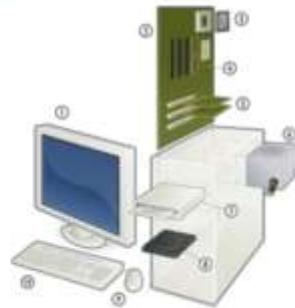


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HARDWARE



Hardware





- Physical components of computer- electrical, electronic & mechanical unit known as hardware of computer
- Equipments involved in the function of computer
- Consists of components that can be physically handled
- Functions of these components is divided in to 3 categories-**input, output & storage**
- Components of these categories connects to microprocessor, output & storage, specifically computer's CPU



- Examples –
- CPU- Hard disk- RAM- Video card
- Input devices- Keyboard- Mouse- Scanner- CD ROM- DVD- Microphone
- Output devices- Monitor- Printer- CD-DVD burner- projector-speaker



SOFTWARE



SOFTWARE



HARDWARE





- Instructions that make the computer work
- General term for organized collection of computer data & instructions
- Responsible for controlling, integrating, managing hardware of computer & to achieve specific tasks
- It tells the computer what to do & how to do
- Held either on your computers hard disk, CD-ROM, DVD or a floppy disk & is copied from the disk into the computers RAM, as & when required to perform tasks



- Two types: (1) System software (2) Application software
- An essential piece of system software on all computer is operating system- use a WINDOWS operating system for communication between computer & the user & a variety of specialized applications software packages for word processing, data entry, management & statistical analyses
- Instructions are given in the form of computer programs, which are written in computer programming languages



- A program controls the activity of processor
- A set of programs, which are specifically written to provide the user a precise functionality like solving a specific problem is termed as software package
- Example- word processing software package provides functionality to the computer so that it can be used to create text documents like letters & mailing lists
- Image processing software package a user in drawing & manipulating graphics



- Can equate with human body & human intelligence
- All human physical actions- walking, eating based on thoughts & feelings-raised by brain-if brain does not raise thoughts & feelings we do not perform any physical activity
- Similarly the actions & functioning of every hardware equipment is driven by software
- Combination of physical equipment(hardware) & logical instructions (software) gives modern computing system their power & versatility

Difference between hardware & software



HARDWARE	SOFTWARE
1. Physical unit of computer	1. Collection of programs to bring hardware system into operation
2. Permanent structure & cannot be altered	2. No permanent structure but can be altered & reused
3. Normally affected by agents like dust, heat, humidity etc	3. Not affected by agents to some extent
4. Understands only machine language, low level languages or binary languages	4. Written by a well verse programmer & generally in higher level languages
5. Works with binary code- presence or absence of pulses as 1's or 0's	5. Represented by high level languages like BASIC, COBOL