

Fundamental of Computer

INTRODUCTION OF COMPUTER

☞ WHAT IS COMPUTER?

Computer is an **electronic device** or machine which performs **arithmetic** and **logical** calculations. It takes the help of **hardware** and **software** to process data.

- Computer derives its name from the word "**Computare**".
- The meaning of **Computare** is Calculation.
- The word **Computare** is derived from the **Latin Language**.
- Computer accepts Input, processes it and gives Output.
- Computer works with high Speed and Accuracy.
- Computer can store a large amount of data for future use.
- Computer is used in schools, banks, hospitals, offices and industries.

Example

Arithmetic Symbol

Symbol	Operation
+	addition
-	subtraction
*	Multiplication
/	Division
%	Modulus

Logical Symbol

Symbol	Operation
==	Equal
!=	not equal
>	greater than
<	less than
>=	greater than or equal
<=	less than or equal

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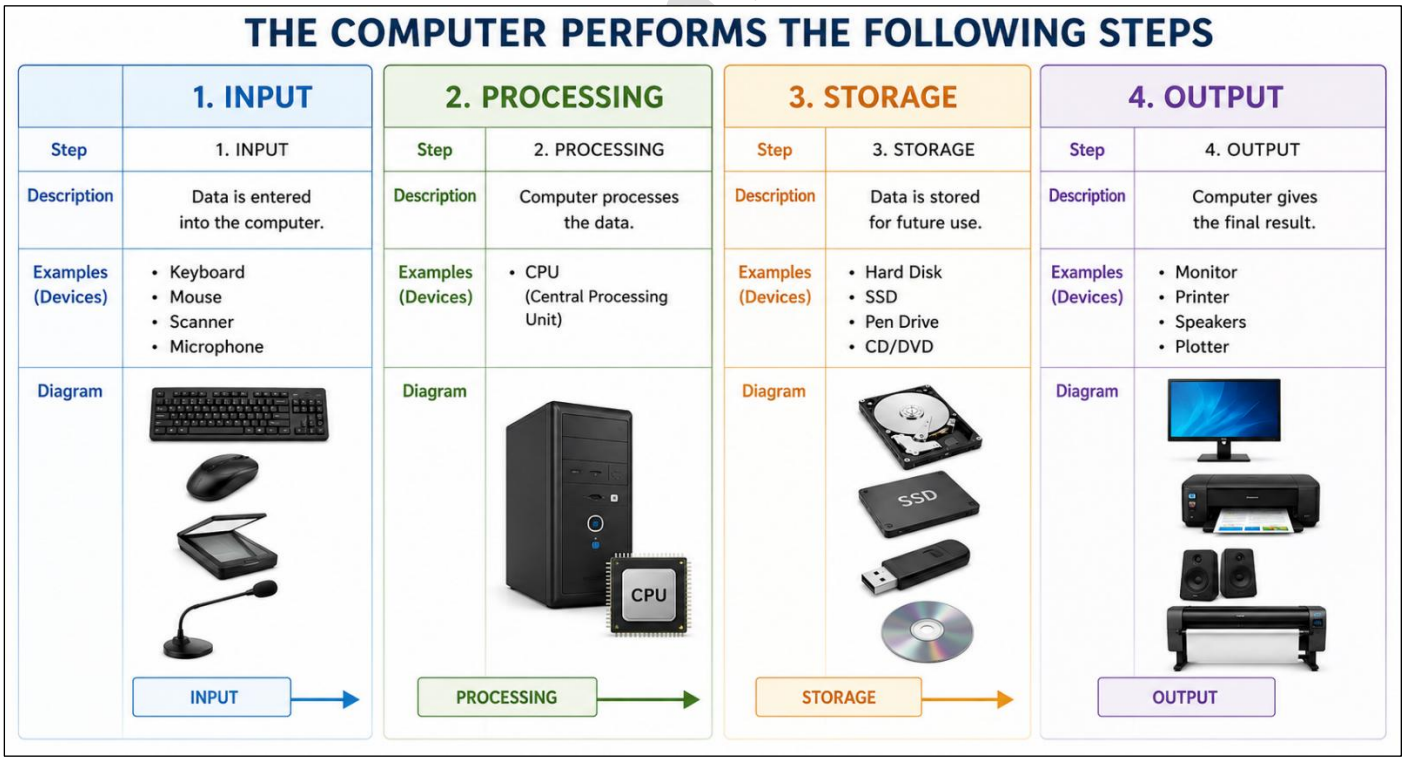
COMPUTER FULL FORM

C- Common
O- Operator
M- Machine
P- Particular
U- User
T- Trade/ Technology
E- Education
R- Research

Difference Between Calculator and Computer.

- **Calculator** is an electronic device used to perform **arithmetic operations** only.
- **Computer** is a simple general-purpose device for performing **arithmetic** or **logical** operations.

The computer performs the following Step :-



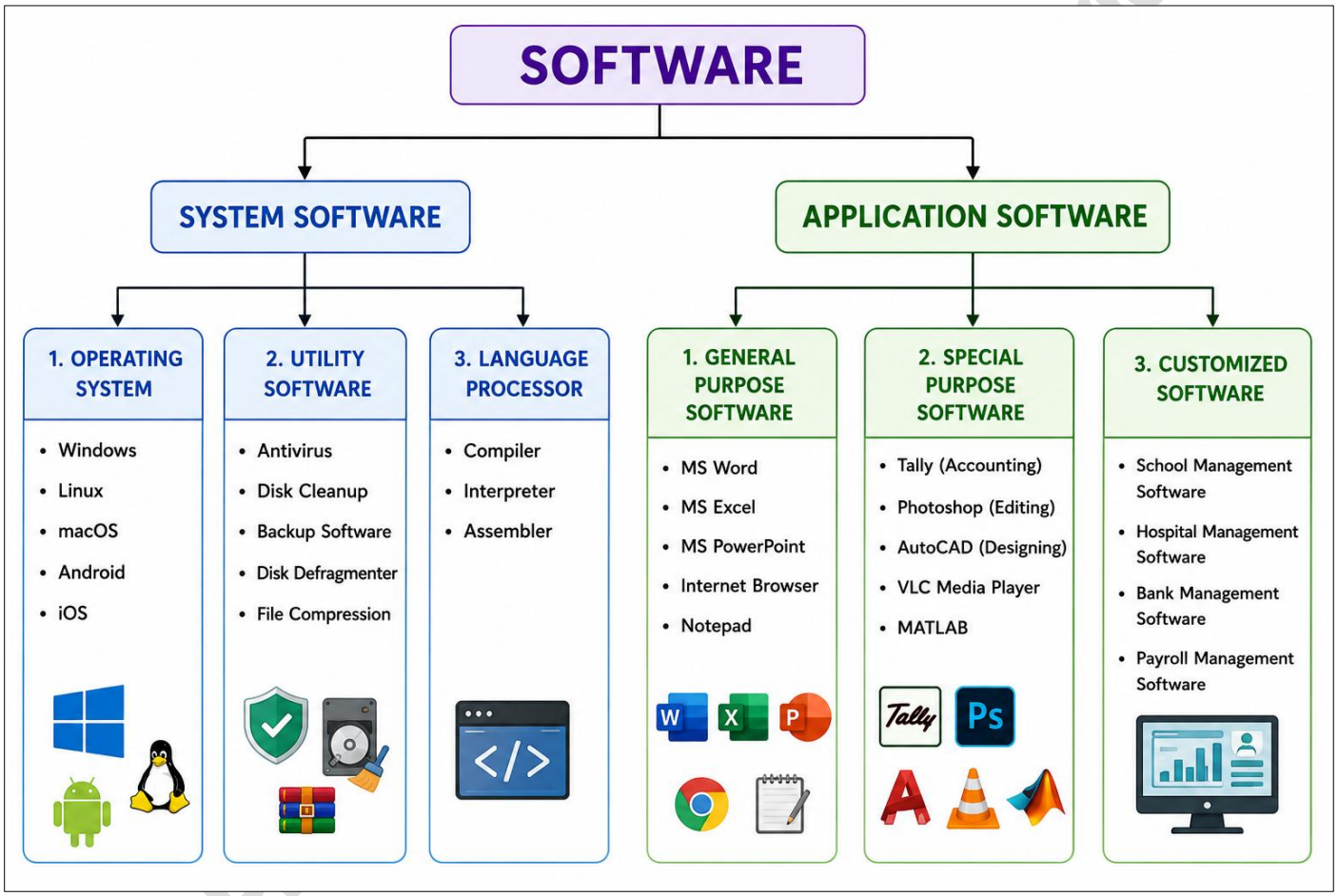


Introduction of Software

The part of the computer which we cannot touch or see physically but can only work on it is called software.

Software is a set of programs and instructions that helps the computer to perform different tasks. Without software, a computer cannot work properly.

Example:- Ms word, Windows-11, Notepad, Ms- Paint, Tally Prime, C++ and other



System Software

System Software is the software that **controls the hardware** of the computer and helps other software to work properly.

Example :- Window- 10, 11, MacOS, Android, iOS, Antivirus software, Disk cleanup tools, Backup software.



- **Operating System** is a system software that runs the computer and works between the user and the computer. **Example :-** windows , Linux , android , MacOs
- **Utility Software** is a system software that helps to maintain and protect the computer. **Example** Antivirus, Disk Cleanup, Backup Software
- **Language Processor** is a system software that converts programming language into machine language so that the computer can understand it.

  - Compiler
  - Interpreter
  - Assembler

Compiler :
Compiler converts the whole program into machine language at one time. **Example :** C, C++ Compiler

Interpreter :
Interpreter converts the program into machine language line by line. **Example :** Python Interpreter

Assembler :
Assembler converts assembly language into machine language. **Example :** MASM (Microsoft Assembler)

Application Software

Application Software is a software that is used to perform specific tasks for the user..

Example:

- **MS Word** – Used for typing and creating documents.
- **MS Excel** – Used for calculations and making tables.
- **MS PowerPoint** – Used for making presentations.
- **Paint** – Used for drawing and coloring pictures.
- **Tally** – Used for accounting and GST work.
- **Photoshop** – Used for photo editing and designing.
- **Google Chrome** – Used for internet browsing.
- **VLC Media Player** – Used for playing audio and video files.
- **Notepad** – Used for simple text writing.
- **Calculator** – Used for mathematical calculations.

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MCQ Questions



1. What is a computer?
   a) Mechanical device b) Electronic device c) Electrical wire d) Mobile tower
   Answer: b) Electronic device

2. Computer performs which operations?
   a) Arithmetic only b) Logical only c) Arithmetic and Logical d) None
   Answer: c) Arithmetic and Logical

3. The word "Computare" belongs to which language?
   a) Hindi b) English c) Latin d) French
   Answer: c) Latin

4. What is the meaning of "Computare"?
   a) Storage b) Calculation c) Typing d) Printing
   Answer: b) Calculation

5. Which device is used for input?
   a) Monitor b) Printer c) Keyboard d) Speaker
   Answer: c) Keyboard

6. Which of the following is an output device?
   a) Mouse b) Scanner c) Monitor d) Keyboard
   Answer: c) Monitor

7. Which symbol is used for addition?
   a) - b) * c) + d) /
   Answer: c) +

8. Which symbol is used for multiplication?
   a) + b) * c) / d) %
   Answer: b) *

9. Which symbol means "Equal"?
   a) != b) == c) >= d) <=
   Answer: b) ==

10. Which symbol means "Not Equal"?
    a) == b) != c) > d) <
    Answer: b) !=

11. Which software runs the computer?
    a) Paint b) Tally c) Operating System d) VLC
    Answer: c) Operating System

12. Which of the following is utility software?
    a) Antivirus b) MS Word c) Paint d) Chrome
    Answer: a) Antivirus

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13. Which software is used for typing?
    a) Paint b) MS Word c) VLC d) Chrome
    Answer: b) MS Word

14. Which software is used for calculations?
    a) Excel b) Paint c) VLC d) Photoshop
    Answer: a) Excel

15. Which software is used for presentations?
    a) MS Word b) Paint c) PowerPoint d) Chrome
    Answer: c) PowerPoint

16. Which software is used for drawing?
    a) Paint b) Tally c) VLC d) Excel
    Answer: a) Paint

17. Tally is used for:
    a) Gaming b) Accounting c) Typing d) Browsing
    Answer: b) Accounting

18. Google Chrome is used for:
    a) Accounting b) Drawing c) Internet Browsing d) Programming
    Answer: c) Internet Browsing

19. VLC Media Player is used for:
    a) Typing b) Playing Audio and Video c) Drawing d) Accounting
    Answer: b) Playing Audio and Video

20. Which software converts whole program at one time?
    a) Interpreter b) Compiler c) Assembler d) Antivirus
    Answer: b) Compiler

21. Which software converts program line by line?
    a) Compiler b) Paint c) Interpreter d) Chrome
    Answer: c) Interpreter

22. Which software converts assembly language into machine language?
    a) Compiler b) Interpreter c) Assembler d) Tally
    Answer: c) Assembler

23. Which of the following is system software?
    a) Windows 11 b) Paint c) Tally d) Photoshop
    Answer: a) Windows 11

24. Which of the following is application software?
    a) Linux b) Android c) MS Excel d) Utility Software
    Answer: c) MS Excel

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25. Which device stores data?
    a) CPU b) Storage c) Keyboard d) Mouse
    Answer: b) Storage

26. Computer works with high:
    a) Noise b) Heat c) Speed and Accuracy d) Weight
    Answer: c) Speed and Accuracy

27. Which part of computer can be touched physically?
    a) Software b) Hardware c) Data d) Program
    Answer: b) Hardware

28. Which part of computer cannot be touched physically?
    a) Keyboard b) Mouse c) Software d) Monitor
    Answer: c) Software

29. Which of the following is an Operating System?
    a) Android b) Paint c) VLC d) Photoshop
    Answer: a) Android

30. Which step comes after Input?
    a) Output b) Processing c) Typing d) Storage
    Answer: b) Processing

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Next Topics:- Introduction of hardware