

Computer's Introduction





- What is Computer
- Computer's History
- Different Types of Computers
- Applications of Computers
- Computer System





- The term <u>computer</u> is derived from the Latin term 'computare', this means to calculate or programmable machine
- Computer is an electronic device for storing and processing data, typically in binary form, according to instructions given to it in a variable program
- A computer is a machine or device that performs processes, calculations and operations based on instructions provided by a software or hardware program
- The five basic operations that a computer performs are input, storage, processing, output and control.





- Charles Babbage is called the "Grand Father" of the computer
- The ENIAC (Electronic Numerical Integrator and Computer) was the first electronic programmable computer built in the U.S
- The ENIAC was invented by J. Presper Eckert and John Mauchly at the University of Pennsylvania and began construction in 1943 and was not completed until 1946.
- It occupied about 1,800 square feet and used about 18,000 vacuum tubes, weighing almost 50 tons (50,000 Kg)

Link: https://codescracker.com/computer-fundamental/history-of-computer.htm





- Since the <u>advent of the first computer</u> different types and sizes of computers are offering different services.
- Computers can be as big as occupying a large building and as small as a laptop or a microcontroller in mobile & <u>embedded systems</u>.
- The four basic types of Computer are:
 - 1. Super-computer
 - 2. Mainframe-Computer
 - 3. Mini-Computer
 - 4. Micro-Computer





- The most powerful computers in terms of performance and data processing are the Supercomputers.
- These computers are used for research and exploration purposes by large organizations
- The supercomputers are very expensive and very large in size
- Uses:
 - Supercomputers are used in Space Exploration, Earthquake Studies, Weather Forecasting, Nuclear Weapon testing etc.





- Mainframes are not as powerful as supercomputers, but certainly they are quite expensive
- Many large firms & government organizations uses Mainframes to run their business operations
- Mainframes can also process & store large amount of data
- Banks, educational institutions & insurance companies use mainframe computers to store data about their customers, students & insurance policy holders.





- Minicomputers are also called as "Midrange Computers".
- Minicomputers are used by small businesses & firms.
- Individual departments of a large company or organizations use Minicomputers for specific purposes
- The types of minicomputer are-tablet PC, Desktop minicomputers, cell phones, notebooks





- Desktop computers, laptops, personal digital assistant (PDA), tablets & smartphones are all types of microcomputers
- The micro-computers are widely used & the fastest growing computers
- These computers are the cheapest among the other three types of computers
- Well known manufacturers of Micro-computer are Dell, Apple, Samsung, Sony & Toshiba.
- The Micro-computers are specially designed for general usage like entertainment, education and work purposes





- Scientific research
- Business application
- Education
- Entertainment
- Banks
- Communication
- Engineering
- Medicine
- Book Publishing
- Games
- Personal
- Accounting





Definition:

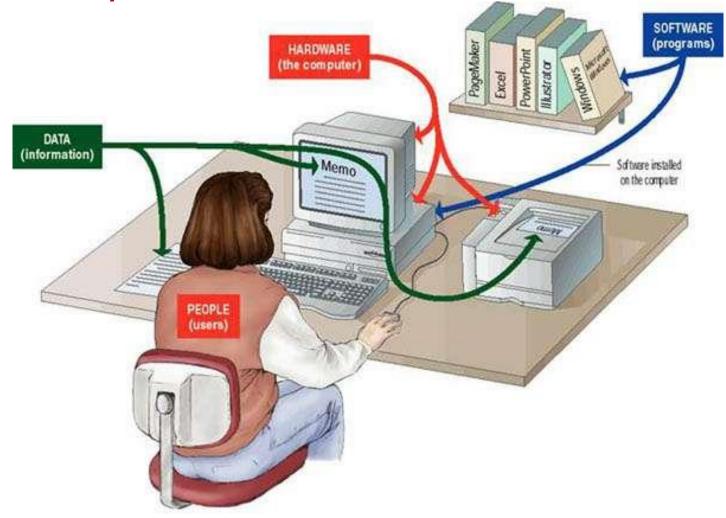
• Is a collection of entities(hardware, software and liveware) that are designed to receive, process, manage and present information in a meaningful format.

Components of Computer System:

- Hardware Physical parts (e.g., input output devices, storage devices and CPU)
- 2. Software Programs and application
- 3. Liveware any human (user)









END

"Indeed, what is to come will be better for you than what has gone by ."

(Quran 93:4)

