Class: 11 Computer Science
Chapter: 1 Computer System

Computer - Electronic device that can be programmed to accept data (input), process (+ and generate result (output).

Computer + Hardware + Software = Computer System →
- CPU
- Memory
- Input/Output
- Storage device

CPU - Central Processing Unit:-
Electronic circuitry of a computer that carries out actual processing.
- also called processor.

Brain of Computer

* "Integrated circuits": CPU placed in one or more microchips, called ICs.
  - Semiconductor material.

Functioning:-
① fetches program ⟶ ② performs operations ⟶ ③ stores Result.

* **Registers**: CPU stores the data as well as instructions in its local memory called Registers.

* CPU ⟶
  - **ALU**: Arithmetic logic Unit → performs operations that need to be done ⟹ for the instructions in a program.
  - **CU**: control Unit → Controls sequential instruction execution, interprets instructions and guides data flow through the computer memory.

CPU aka Microprocessor

Input device:- The devices through which control signals are sent.
input data ⟶ Digital form.
Examples - Keyboard, Mouse, Scanner, touch screen.

Output device:- The devices through which control signals are received.
digital form ⟶ human Understandable form.
Examples - Monitor, projector, speaker, headphones, printer.
3D Printer:- To build physical replica. used in manufacturing industries and to create prototypes of products.

Evolution

Pascaline 1642 | Tabulating Machine 1890 | EDVAC/ENIAC 1945 | Integrated Circuit 1970

500 BC — Abacus | 1834 Analytic Engine | 1937 Turing Machine | 1947 Transistor

Computer Memory:- To store data and instructions for processing.

Units of memory:- Binary numbers (0 and 1) → Basic unit → Bits.
4 - bit word → nibble (1001, 1010)
2 - nibble word → byte (01000110, 01111100)

Unit	Description	Unit	Description
KB (kilobyte)	1 KB = 1024 Bytes	PB (Petabyte)	1 PB = 1024 TB
MB (Megabyte)	1 MB = 1024 KB	EB (Exabyte)	1 EB = 1024 PB
GB (Gigabyte)	1 GB = 1024 MB	ZB (zettabyte)	1 ZB = 1024 EB
TB (Terabyte)	1 TB = 1024 GB	YB (Yottabyte)	1 YB = 1024 ZB

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planned 6G research frameworks are included The features of the book include A broad perspective on 5G communications with a focus on smart cities Discussion of artificial intelligence in future wireless communication and its applications A systemic and comprehensive coverage of 6G technologies challenges and uses The role of future wireless communications in safety health and transport in smart cities Case studies of future wireless communication This book is aimed at researchers and professionals in communications signal processing cyber physical systems and smart cities **Computational Intelligence in Machine Learning** Vinit Kumar Gunjan,Amit Kumar,Jacek M. Zurada,Sri Niwas Singh,2024-02-20 This volumes comprises select proceedings of the International Conference on Computational Intelligence in Machine Learning ICCIML 2022 The contents cover latest research trends and developments in the areas of machine learning smart cities IoT Artificial Intelligence cyber physical systems cybernetics data science neural network cognition among others It also addresses the comprehensive nature of computational intelligence AI ML and DL to emphasize its character in modelling identification optimization prediction forecasting and control of future intelligent systems This volume will be a useful guide to those working as researchers in academia and industry by presenting in depth fundamental research contributions from a methodological application perspective in understanding Artificial intelligence and machine learning approaches and their capabilities in solving diverse range of problems in industries and its real world applications **Smart Trends in Computing and Communications** Yu-Dong Zhang,Jyotsna Kumar Mandal,Chakchai So-In,Nileshsingh V. Thakur,2019-12-03 This book gathers high quality papers presented at the International Conference on Smart Trends for Information Technology and Computer Communications SmartCom 2019 organized by the Global Knowledge Research Foundation GR Foundation from 24 to 25 January 2019 It covers the state of the art and emerging topics pertaining to information computer communications and effective strategies for their use in engineering and managerial applications It also explores and discusses the latest technological advances in and future directions for information and knowledge computing and its applications *Climate Change and Water Security* Sreevalsa Kolathayar,Arpita Mondal,Siau Chen Chian,2021-11-18 This book presents the select proceedings of the Virtual Conference on Disaster Risk Reduction VCDRR 2021 It emphasizes on the role of civil engineering for a disaster resilient society It presents latest research on climate change and water security focusing on disaster risk reduction Various topics covered in this book are climate change stormwater management flood risk analysis drought management water treatment etc This book is a comprehensive volume on disaster risk reduction DRR and its management for a sustainable built environment This book is useful for the students researchers policy makers and professionals working in the area of civil engineering climate change and disaster management **ECKM 2023 24th European Conference on Knowledge Managemen Vol 1** Academic Conferences and Publishing Limited,2023-09-07 **Scientific and Technical Organizations and Agencies Directory** Peter D. Dresser,1994 **Air Quality Monitoring and Management Using Sensors** Amit Awasthi,Manjeet Kumar,Tanupriya

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