

# Class: 11 Computer Science

## Chapter 1: Computer System

**Computer** - Electronic device that can be programmed to accept data (input), process it 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 as per 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**

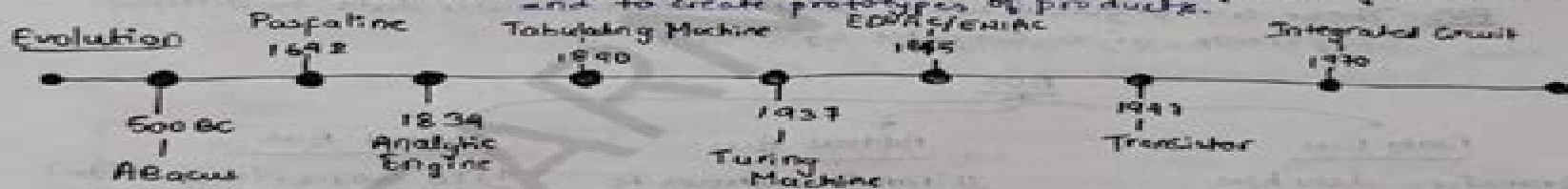
**Input device**: - The device through which control signals are sent.  
input data → Digital form.

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 replicas. used in manufacturing industries and to create prototypes of products.



**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 (Pebabyte)	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

# Computer Science Notes 11th Class State Board

**Albert A Gayle**



## **Computer Science Notes 11th Class State Board:**

*Overview and Inventory of State Requirements for School Coursework and Attendance* Elliott A. Medrich, 1992 The substance and impact of state level reforms related to student standards are presented by 1 providing information on the current state of educational reforms aimed at raising student standards 2 summarizing research designed to identify linkages between higher standards and student outcomes 3 exploring the strength of relationships between higher standards and student outcomes 4 examining trends among indicators associated with higher student standards and 5 discussing data and methods available to those concerned with the relationship of higher educational standards to student outcomes The first of four chapters briefly describes the range of state initiatives designed to achieve higher student standards and the problems associated with assessing their impacts as well as the data available for examining student outcomes Chapter 2 discusses the great variety of reform activities that have occurred at the state level between 1983 and 1990 and places them in a historical context Chapter 3 looks at research on trends in student outcomes and linkages to school reform such as student course taking patterns the proportion of school time devoted to academic subjects student achievement and high school completion rates The last chapter discusses issues associated with studying the impact of state reforms and suggests some analytical strategies that might be used to describe linkages between reforms and student outcomes Three appendixes provide the following information 1 minimum high school graduation requirements for standard diplomas 1980 and 1990 2 an overview of researching reform and student outcomes using selected databases and 3 standard error tables 53 references

MLF *Digest of Education Statistics*, 1991 Contains information on a variety of subjects within the field of education statistics including the number of schools and colleges enrollments teachers graduates educational attainment finances Federal funds for education libraries international education and research and development *Digest of Education Statistics, 1991* Thomas D. Snyder, Charlene M. Hoffman, 1991 This document consisting of 7 chapters 35 figures 395 tables plus 22 appendix tables provides statistical data on most aspects of United States education both public and private from kindergarten through graduate school The chapters cover the following topics 1 all levels of education 2 elementary and secondary education 3 postsecondary education 4 federal programs for education and related activities 5 outcomes of education 6 international education and 7 learning resources and technology A wide range of information is presented on a variety of subjects including the number of schools and colleges teachers enrollments and graduates in addition to educational attainment finances federal funds for education employment and income of graduates libraries and international education Supplemental information on population trends attitudes on education education characteristics of the labor force government finances and economic trends provides background for evaluating education data Included among data not appearing in previous editions are the following expenditures for interest on school debt and capital outlay by state work related training student proficiency in mathematics content areas student performance on mathematics tests by state

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providing attention to high risk students monitoring students and using tests for diagnosis Appendices contain 1 the results of a polling of 1 200 adults concerning standard setting measures and 2 minimum state graduation requirements RG

**Resources in Education** ,1992-02 Digest of Education Statistics 1996 ,1996 **The Book of the States** Council of State Governments,1992 This comprehensive reference guide offers information on state government that is unavailable from any other single source Includes complete data for comparison 1 800 800 1910 *The College Board College Handbook 2004* College Board,College Board Staff,2003-07-15 This is the only guide to all 3 600 four year and two year colleges in the United States for those seeking complete college information High Technology Employment, Education, and Training in Washington State ,1984 **The Book of the States** Deborah A. Gona,1994 This comprehensive reference guide offers information on state government that is unavailable from any other SINGLE source It reflects activity in the states with complete information on government reorganization management productivity elections state finances taxation state administrators salaries legislative compensation federal expenditures in the states state initiatives campaign finances corrections health care more Also contains more than 300 50 state tables in an easy to read format for quick reference Other topics covered include state constitutions state by state voting statistics facts about each state such as state motto population capitol estimated costs of attending institutions of higher learning dozens of essays concerning current trends in state government Clothbound completely indexed 79 each 30% discount for orders 6 or more Orders The Council of State Governments Sales Dept 3650 Iron Works Pike P O Box 11910 Lexington KY 40578 1910 1 800 800 1910 **America's Best Colleges** ,2003 *The Book of the States* ,1990 This comprehensive reference guide offers information on state government that is unavailable from any other single source Includes complete data for comparison analysis on governors legislators judges courts taxation elections revenues expenditure debt employment personnel more Also contains more than 200 50 state tables Other topics covered include state constitutions state by state voting statistics facts about each state such as state motto population capitol estimated costs of attending institutions of higher learning dozens of essays concerning current trends in state government New additions to the 90 91 edition include a 22 page profile on state innovators the visionary leaders behind state policies programs information on stateinitiative referendum recall Completely indexed **Informational Bulletin** Wisconsin. Legislature. Legislative Reference Bureau,1981 **Digest of Education Statistics** Thomas D Snyder,2005-02 *America's best colleges* editors of U.S. News & World Report,2002 **ASEE 1995-1996 Profiles of Engineering & Engineering Technology Colleges** ,1997 *ASEE ... Profiles of Engineering & Engineering Technology Colleges* ,1998

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