

# 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 replica. 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

**Council of State Governments**



## **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

characteristics of college faculty by type and control of institution and faculty salaries by field of instruction A short introduction provides a brief overview of current trends in American education and each chapter highlights significant trends Guides to tabular presentations and sources are provided along with a definitions section and an index MLF **Digest of Education Statistics** ,1988 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, 1992 Thomas D. Snyder,Charlene M. Hoffman,1992 This document consisting of 7 chapters 35 figures 409 tables plus 20 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 drug use by teenagers and young adults characteristics of vocational education teachers proportion of 17 year olds taking various science courses federal support for education by type of recipient opinions of teachers about teacher training and number of students and teachers in urban rural and suburban areas A short introduction provides a brief overview of current trends in American education and each chapter highlights significant trends Guides to tabular presentations and sources are provided along with a definitions section and an index MLF **The Book of the States, 1996-97 Edition** ,1996 **Raising Standards in Schools** Patricia Pine,1985 In a survey of 1 500 administrators most of the 400 respondents agreed by an 8 to 1 margin that reforms to raise academic standards in public schools are necessary In high schools a decline in reading vocabulary and math skills is due basically to a decreased academic emphasis Solutions include more required courses more opportunities for writing and laboratory activities homework in all classes and a rigid core curriculum Second the absence of rigorous graduation requirements in high schools seems to account for an increase in remedial college enrollments Achievement tests advanced placement courses and counseling are strategies to make college bound students aim higher Third students become negligent when their teachers demand little Districts are attempting to raise expectations through methods such as grading homework and attendance policies Other academic reforms involve productive use of time participation of key working groups in the standard raising process and continued attention to disadvantaged students Recently districts have been concentrating on elementary school standards by involving parents

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

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or group of genes corepressor

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