

UNIT – I(b)

Introduction to Programming, Algorithms and Flowcharts: Programs and Programming, Programming languages, Compiler, Interpreter, Loader, Linker, Program execution, Fourth generation languages, Fifth generation languages, Classification of Programming languages, Structured programming concept, Algorithms, Pseudo-code, Flowcharts, Strategy for designing algorithms, Tracing an algorithm to depict logic, Specification for converting algorithms into programs.

Introduction to Programming, Algorithms and Flowcharts

Programs and Programming:

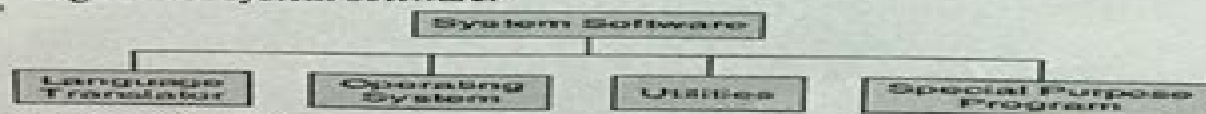
- A program is a set of logically related instructions that is arranged in a sequence that directs the computer in solving a problem.
- The process of writing a program is called programming. It is a necessary and critical step in data processing.
- An incorrect program delivers results that cannot be used. There are two ways by which one can acquire a program—either purchase an existing program, referred to as *packaged software* or prepare a new program from scratch, in which case it is called *customized software*.
- Software is a collection of computer programs and related data that provides the instructions for telling a computer what to do and how to do it.
- Computer software can be broadly classified into two categories:
 - (a) . System software
 - &
 - (b) . Application software



Fig: Computer Software Classification

System software:

- System software is a collection of programs that interfaces with the hardware.
- Categories of system software:



Language translator It is a system software that transforms a computer program written by a user into a form that can be understood by the machine.

Operating system (OS) An operating system manages the computer's resources effectively, takes care of scheduling multiple jobs for execution, and manages the flow of data and instructions between the input/output units and the main memory.

Basic Computer Engineering By E Bala Guru Swami

Richard Bailey



Basic Computer Engineering By E Bala Guru Swami:

Indian Books in Print ,2000 **IETE Technical Review** ,1992 **A Handbook of Information Technology** C. T. Bhunia,2007 Information technology IT can be collectively described as that used by man to gather store and retrieve manipulate and communicate data and information Today in the Information Age this takes place over and across vast geographical demographical socio political and economic scopes and the ceasing of it will choke society as know it today to a pre historic standstill It is understandably implemented through various aspects of computing and Electronic Technology With the growing complexity of the information processing needs throughout fields as diverse as business science technology exploration and entertainment several issues involving data security time complexity Bandwidth and thought put parallel and alternative computing technology and the technology used in an ever increasing band of newer types of devices are posing the most crucial questions to the future of society in general and IT in particular The book is a collection of articles written by professors industry persons and researchers of international repute and comprises the latest breakthroughs in the fields of Information Theory and Coding Information Security Next Generation Internet technology Data Mining and Knowledge Management Mobile Computing and Communication Bioinformatics Soft Computing Multimedia Systems and Communication Quantum Computing Image Processing and other areas which together comprise IT This book is a must read for those seeking to expand their knowledge about various aspects of Information Technology **Natural Fibre Reinforced Cement and Concrete** R. N. Swamy,1988 **International Books in Print** ,1991 **A - B.** ,1992 *Concrete International* ,1998 *Books in Print Supplement* ,1979 IEEE Membership Directory Institute of Electrical and Electronics Engineers,2000 **Computer Engineering Diploma & Engineering MCQ** Dole Manoj,2022-12 Computer Engineering Diploma Engineering MCQ is a Book for Computer Engineering Course Revised Syllabus It contains objective questions with underlined bold correct answers MCQ covering all topics including all about the latest Important about Introduction to computer concepts Concepts of electrical and electronics engineering Programming using C Digital Basic electronics Programming with C Basic Computer Skills Multimedia Applied Science Engineering Physics Engineering Chemistry Computer Organization OOP with C Data Structures Using C Database Management System Computer Networks Operating System Data Structures Software Engineering PC Hardware and Networking Graphic User Interface Web Designing Linux Software Testing Programming with java Network Security and Management Web Programming Mobile Computing Programming with java Software Testing Web Programming Network Security computer peripherals internal components basic DOS commands Windows and Linux interface and its related software installation MS Office word document excel sheet and power point presentation database with MS Access network system of an organization internet browser basic static webpage using HTML JavaScript and dynamic webpage and hosting technique in a registered domain VBA to create edit various types of macros in MS Excel and to develop user form using VBA accounting software Tally E commerce system and

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