Lecture 4

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Types of Software

- i) Scientific Saftware Scientific and engineering software satisfies the needs of a scientific or engineering user to perform enterprise therific tasks. Such software is written for specific applications using principles, techniques and formulae specific to that field. Examples. MATLAB, AUTOCAD, etc.
- (ii) Business Saftware This category of software is used to support the business applications and is the most widely used category of software. Examples are software for inventory management, accounts, banking, hospitals, schools, stock markets, etc.

More Types

(i) System Software

-> Programs that service other programs.

-> Programs that interact with hardware.

- Necessary to manage the computer resources and support the execution of application programs.

- computer cannot function without the presence of these.

The machine defendent needs of a program with the capabilities of the machine on which it runs.

4) Compilers translate programs from high level to machine language.

ii) feal Time Software Monitor | Analyzes / Controls neal world events as they occur tomplen facilities like production plants, nuclear power plants require greater precision, speed and customization. Such software comes with a scheduler that decides what activity should take place at a facticular time and the execution of such scheduler is more advanced than normal schedulers → few factors that determine whether software qualifies as feal Time Software a) Worst Case execution Time W Time taken to execute a task c) Number of tasks on a hardware platform consequent rate assessed took grantfood secretarial attention to the land query recognized to marriage the confirm of presences ord nothing to mathemas sal, I rapper Computer convert function which is beautific to phosphip of time our new the machine of product with