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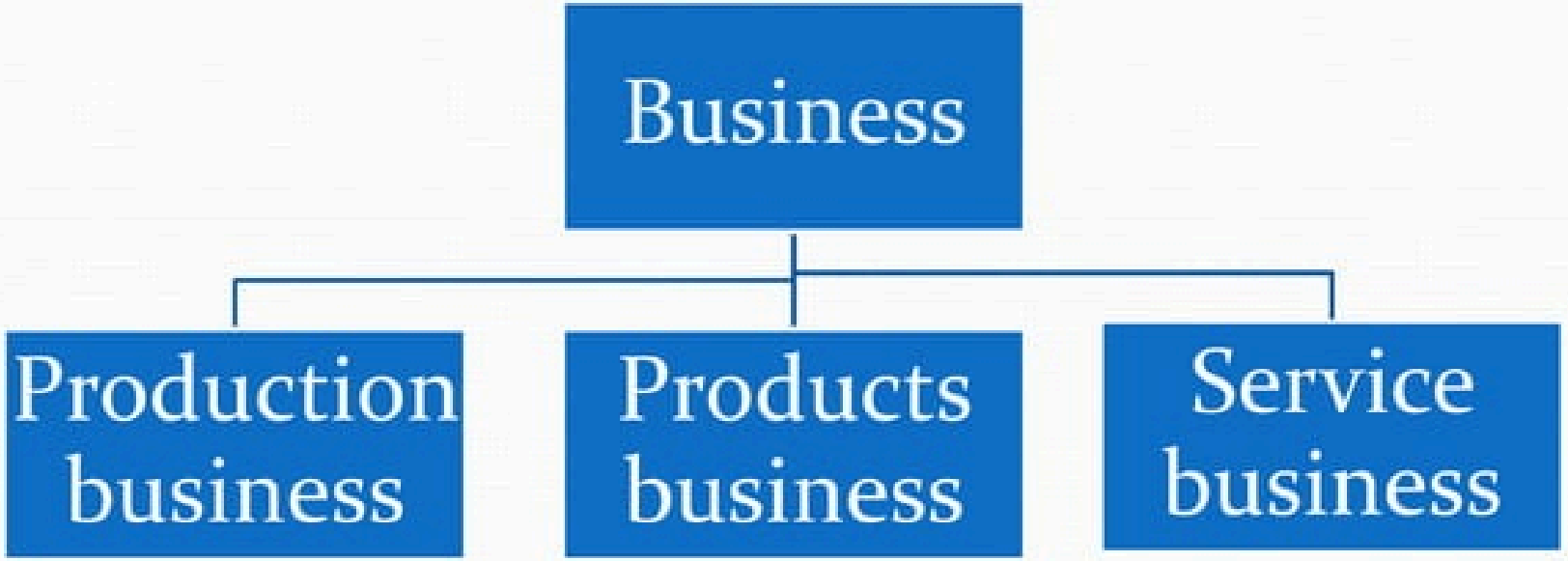
presentation

Definition of Flowchart

A flowchart is a type of diagram that represents a workflow or process, showing the steps as boxes of various kinds, and their order by connecting them with arrows.

Example of Flowchart

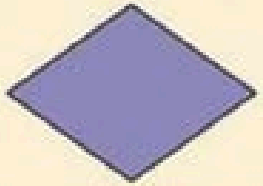


Types of flowchart

Sterneckert (2003) suggested that flowcharts can be modeled from the perspective of different user groups (such as managers, system analysts and clerks):

- *Document flowcharts*, showing controls over a document-flow through a system.
- *Data flowcharts*, showing controls over a data-flow in a system.
- *System flowcharts* showing controls at a physical or resource level.
- *Program flowchart*, showing the controls in a program within a system.

Symbols of Flowchart

Name	Symbol	Use in flowchart
Oval		Denotes the beginning or end of a program.
Flow line		Denotes the direction of logic flow in a program.
Parallelogram		Denotes either an input operation (e.g., INPUT) or an output operation (e.g. PRINT).
Rectangle		Denotes a process to be carried out (e.g., an addition).
Diamond		Denotes a decision (or branch) to be made. The program should continue along one of two routes (e.g., IF/THEN/ELSE).

Advantages of Flowchart

- **Communication:** - Flowcharts are better way of communicating the logic of a system to all concerned.
- **Effective analysis:** - With the help of flowchart, problem can be analyzed in more effective way.
- **Proper documentation:** - Program flowcharts serve as a good program documentation, which is needed for various purposes.

Advantages of using Flowchart

- **Efficient Coding:** - The flowcharts act as a guide or blueprint during the systems analysis and program development phase.
- **Proper Debugging:** - The flowchart helps in debugging process.
- **Efficient Program Maintenance:** - The maintenance of operating program becomes easy with the help of flowchart. It helps the programmer to put efforts more efficiently on that part

Disadvantages of using Flowchart

- **Complex logic:** - Sometimes, the program logic is quite complicated. In that case, flowchart becomes complex and clumsy.
- **Alterations and Modifications:** - If alterations are required the flowchart may require re-drawing completely.
- **Reproduction:** - As the flowchart symbols cannot be typed, reproduction of flowchart becomes a problem.

Thank You