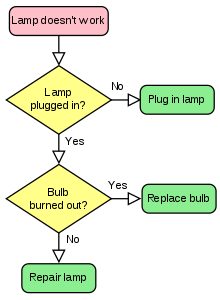
John Lorens O. Fabiano

BSBA- FM

**FLOWCHART**

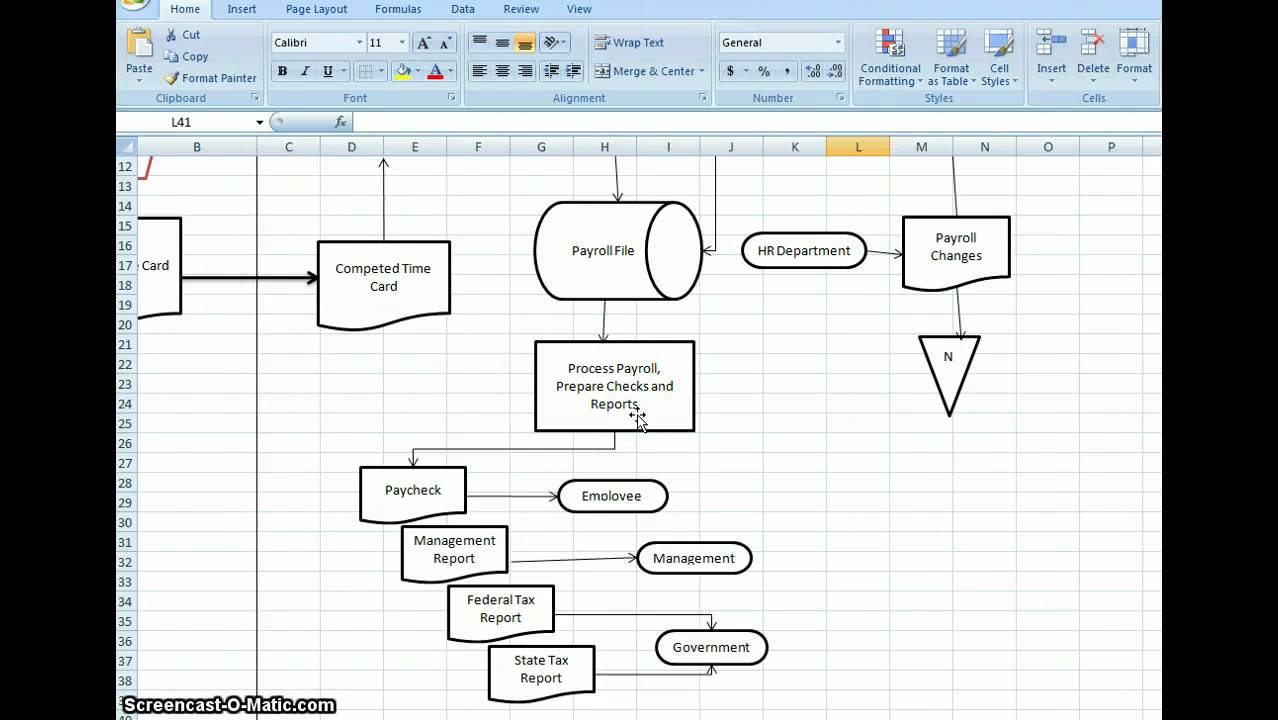
**What is flow chart?**



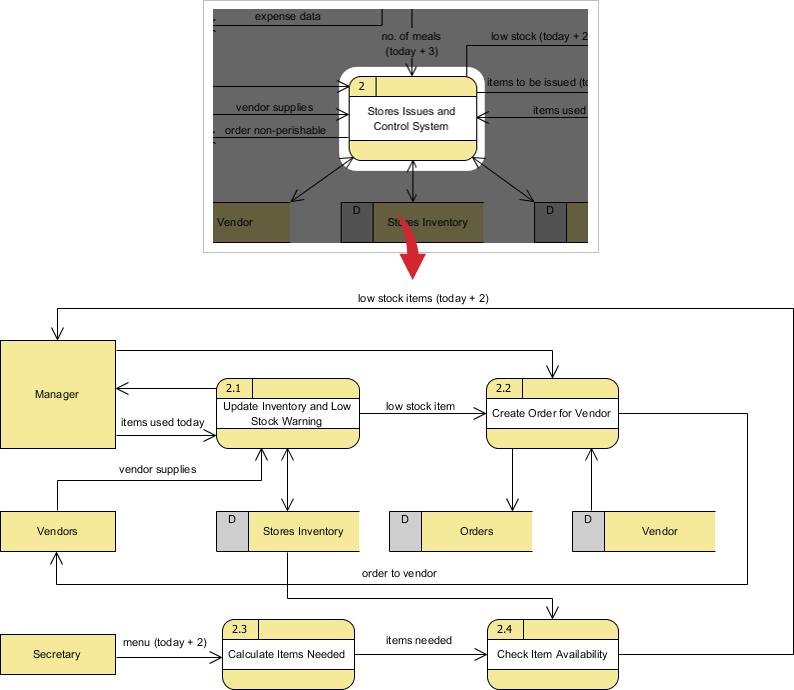
A flowchart is a diagram style describing a system or workflow. A flowchart can also be described as an algorithm diagram, a step-by-step approach to solving a problem. The flowchart displays the steps as different types of boxes and their order by connecting the boxes to arrows. A diagrammatic representation shows a model of solution to a particular problem. Flowcharts are used in different fields to evaluate, model, record and manage a system or program.

**TYPES OF FLOW CHART**

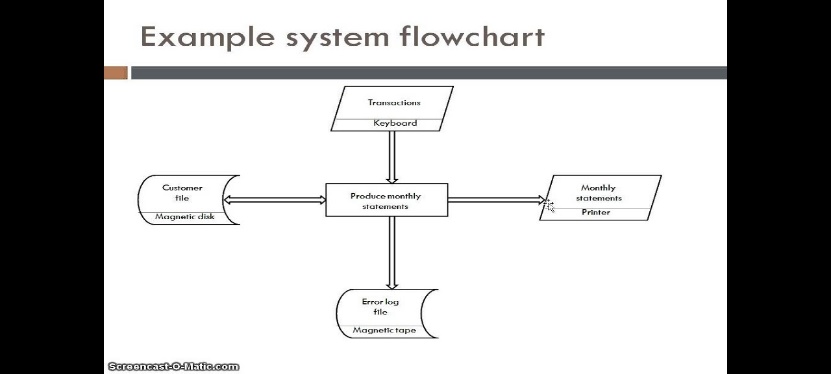
* **Document flowcharts -**  showing controls over a document-flow through a system.



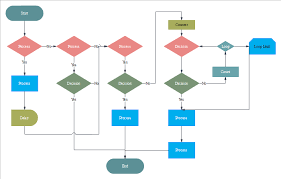
* **Data flowcharts -** showing controls over a data-flow in a system.



* **System flowcharts -** showing controls at a physical or resource level.



* **Program flowchart -** showing the controls in a program within a system.

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**COMMON SYSMBOLS IN FLOWCHART**

* **Flowline (Arrowhead)**

Flowchart Line.svgShows the order of operation of the system. A line from one sign leading to another. If the stream is not the standard top-to-bottom, left-to-right, arrowheads are inserted.

* **Terminal**

Flowchart Terminal.svgIndicates the beginning and ending of a program or sub-process. Represented as a stadium, oval or rounded (fillet) rectangle. They usually contain the word "Start" or "End", or another phrase signaling the start or end of a process, such as "submit inquiry" or "receive product".

* **Process**

Flowchart Process.svgRepresents a series of operations that alter data value, form, or position. Performed as a rectangle.

* **Decision**

Shows a conditional operation that determines which one of the two paths the program will take.The operation is commonly a yes/no question or true/false test. Represented as a diamond.

* **Input /Output**

Flowchart IO.svgIndicates the information input and output process, such as data entry or results show. Performed as a parallelogram**.**

* **Annotation(Comment)**

Flowchart Annotation.svgProvide additional information on a program step. Represented as an open rectangle with a dashed or solid line that connects the flowchart to the corresponding symbol.

* **Predefined Process**

Flowchart Predefined Process.svgShows named process which is defined elsewhere. Represented as a rectangle with double-struck vertical edges.

* **On-page Connector**

Flowchart Connector.svgPairs of labeled connectors replace long or confusing lines on a flowchart page. Represented by a small circle with a letter inside.

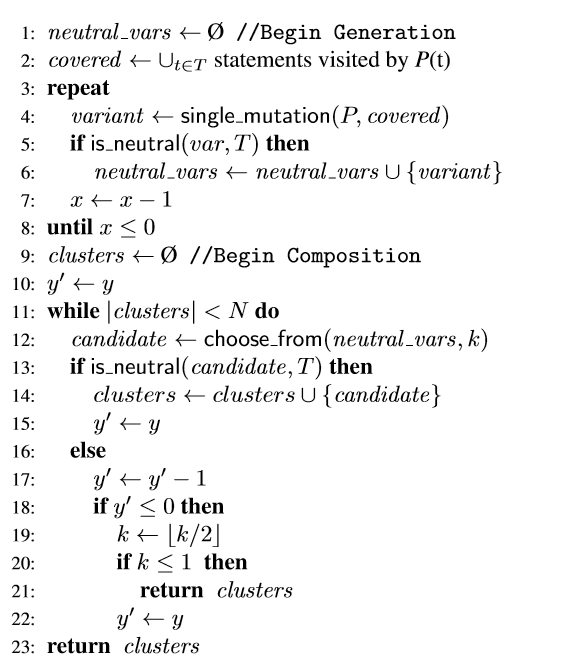
* **Off-page Connector**

Off page connector.pngInitially used for steps such as setting a shift or initializing a routine, represented by an elongated hexagon.

PSEUDOCODES

**What is Pseudocodes?**

Is an informal high-level overview of a computer program or other algorithm's operating theory**.** This uses a standard programming language's formal rules, but is intended for human reading rather than computer learning. Usually, pseudocode omits specifics that are important to the algorithm's machine understanding, such as variable definitions, system-specific code, and some subroutines. The programming language is improved with the definition of the natural language, where possible, or with compact mathematical notation. The aim of using pseudocode is to make it easier for people to understand than traditional language code for programming, and to explain the key principles of an algorithm effectively and environmentally separately.



It is widely used in textbooks and scientific publications describing different algorithms, as well as in computer program design planning, to outline the program structure before the actual coding occurs.

**What is the difference between Flowchart and Pseudocode?**

The main difference between Pseudocode and Flowchart is that pseudocode is an unofficial high-level algorithm summary, whereas flowchart is an algorithm's pictorial representation. An algorithm is a step-by-step sequence of problem solving. Therefore, computer programming uses algorithms.

References:

<https://en.wikipedia.org/wiki/Flowchart>

<https://economictimes.indiatimes.com/definition/pseudocod>

<https://pediaa.com/what-is-the-difference-between-pseudocode-and-flowchart/>