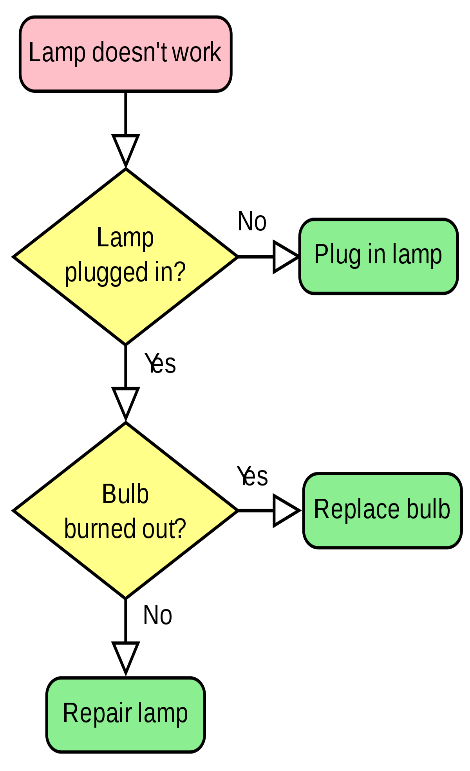
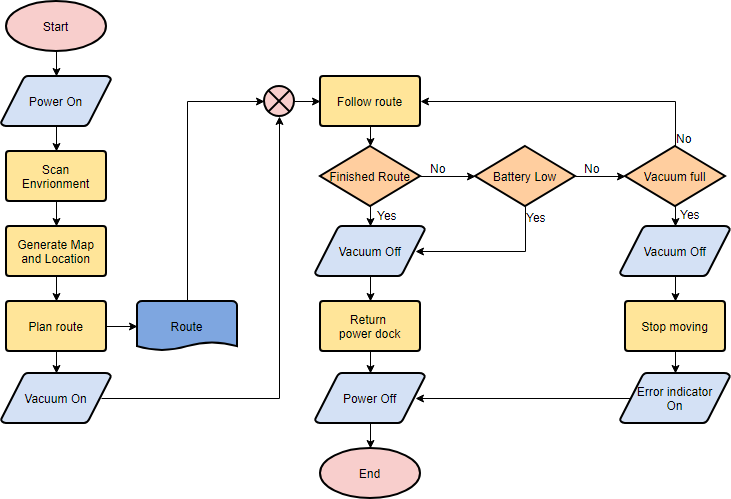
**Niel Angelo D. Reyes  
AC 192**

**Flowchart**

* **Flowcharts** is a type of graphs that has shapes/symbol that each symbolizes a specific command that the program will follow and it will serve as a basis/blueprint in doing the program or programming
* According to the site Visual-Paradigm.com, A flowchart is a graphical representations of steps. It was originated from computer science as a tool for representing algorithms and programming logic but had extended to use in all other kinds of processes. Nowadays, flowcharts play an extremely important role in displaying information and assisting reasoning. They help us visualize complex processes, or make explicit the structure of problems and tasks. A flowchart can also be used to define a process or project to be implemented.



* According to the Merriam Webster dictionary flowchart is “a diagram that shows step-by-step progression through a procedure or system especially using connecting lines and a set of conventional symbols.”
* According to the site Wikipedia.org. Flowchart is a type of diagram that represents a workflow or process. A flowchart can also be defined as a diagrammatic representation of an algorithm, a step-by-step approach to solving a task. The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows.

**Why do we use Flowcharts?**

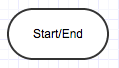
* We use Flowcharts in order for us to have a basis in doing our programming so that we may know the movements, decisions and many other more commands that the program that we make without any confussion and must function properly
* According to the site smallbusiness.chron.com The purpose of flowcharts are to communicate how a process works or should work without any confusing technical jargon. Understanding the major uses of flowcharts can help your business run at peak levels.

**Why is Flowchart important?**

* Flow charts are an important tool for the improvement of processes. By providing a graphical representation, they help project teams to identify the different elements of a process and understand the interrelationships among the various steps. Flow charts may also be used to gather information and data about a process as an aid to decision making or performance evaluation.

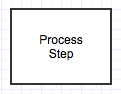
**Basic Flowchart Symbols**

* According to the Site gliffy.com there are 4 Basic Flowchart Symbols

1. **The Oval**

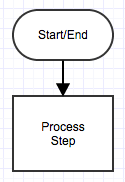
* **An End or a Beginning**
* The **oval** is used to represent the start and end of a process.

1. **The Rectangle**



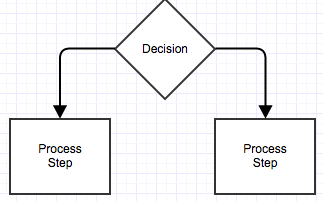
* **A Step in the Flowcharting Process**
* The rectangle is your go-to symbol. It represents any step in the process flow you’re diagramming and is the workhorse of the flowchart diagram.

1. **The Arrow**



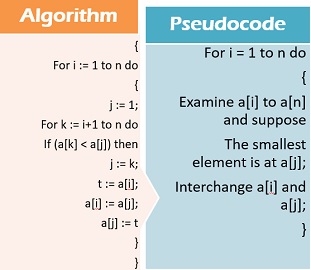
* **Directional Flow**
* The arrow is used to guide the viewer along their flowcharting path. And while there are many different types of arrow tips to choose from, we recommend sticking with one for your entire flowchart. It’s less confusing and generally more aesthetically pleasing.

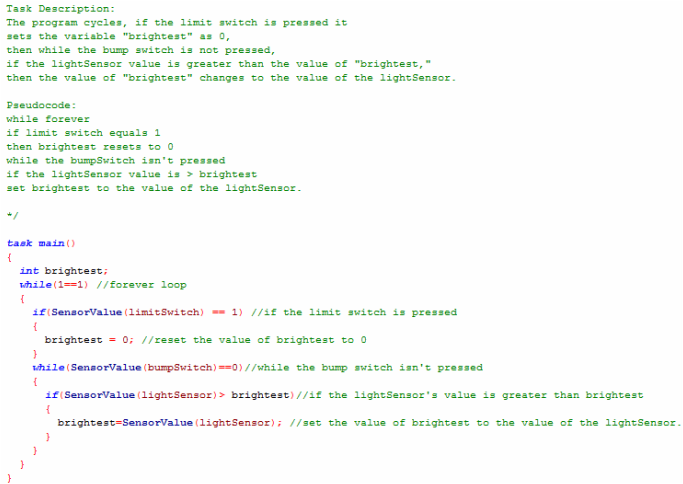
1. **The Diamond**



* Call for a Decision
* The diamond symbolizes that a decision needs to be made.  If there are only two choices, you can draw arrows directly from the diamond to the next step (example on the left). If there are more than two choices, you can draw them neatly by copying the example on the right.

Psuedocode

* According to the site [whatis.techtarget.com](https://whatis.techtarget.com/) Pseudocode (pronounced SOO-doh-kohd) is a detailed yet readable description of what a computer program or algorithm must do, expressed in a formally-styled natural language rather than in a programming language. Pseudocode is sometimes used as a detailed step in the process of developing a program. It allows designers or lead programmers to express the design in great detail and provides programmers a detailed [template](https://whatis.techtarget.com/definition/template) for the next step of writing code in a specific programming language.



* According to Wikipedia.org, Psuedocode is an informal [high-level](https://en.wikipedia.org/wiki/High-level_programming) description of the operating principle of a [computer program](https://en.wikipedia.org/wiki/Computer_program) or other [algorithm](https://en.wikipedia.org/wiki/Algorithm). It uses the structural conventions of a normal [programming language](https://en.wikipedia.org/wiki/Programming_language), but is intended for human reading rather than machine reading. Pseudocode typically omits details that are essential for machine understanding of the algorithm, such as [variable declarations](https://en.wikipedia.org/wiki/Variable_declaration), system-specific code and some [subroutines](https://en.wikipedia.org/wiki/Subroutine). The programming language is [augmented](https://en.wikipedia.org/wiki/Augmented_cognition) with [natural language](https://en.wikipedia.org/wiki/Natural_language) description details, where convenient, or with compact [mathematical notation](https://en.wikipedia.org/wiki/Mathematical_notation)

**When do we use them and why is it important?**

* We use Psuedocode when we need to specifically detail or describe each specific action, movement and decision that the program must do in order for us to get an overview and can understand easily what the program will do and so that we could avoid confusion .
* According to Shawn Masters, (2018) Psuedocode is important because Given that psuedo code is for communicating ideas to other people it has more specific advantages. First off, the other party doesn't have to know the implemetation language or even be a master programmer. This allows you to communicate complex ideas faster and clearer.Second, you can gloss over implemetation details that might be pages long and require days to establish. Got an advanced idea that isn't the key to the discussion, but key to implemetation, it's a word or two. This literature based encapsulation is great at the beginning of design.

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