**Algorithm, Flowchart and Pseudocode**

Table of Contents

[Algorithm 2](#_Toc65536059)

[Flowchart 3](#_Toc65536060)

[Pseudocode 4](#_Toc65536061)

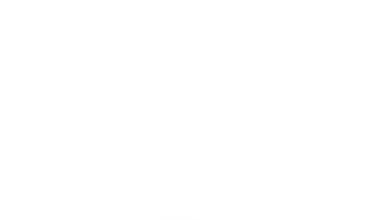
## Algorithm

To write a logical step-by-step method to solve the problem is called algorithm, in other words, an algorithm is a procedure for solving problems. In order to solve a mathematical or computer problem, this is the first step of the procedure. An algorithm includes calculations, reasoning and data processing.

## Flowchart

A flowchart is the graphical or pictorial representation of an algorithm with the help of different symbols, shapes and arrows in order to demonstrate a process or a program. With algorithms, we can easily understand a program. The main purpose of a flowchart is to analyse different processes. Several standard graphics are applied in a flowchart:

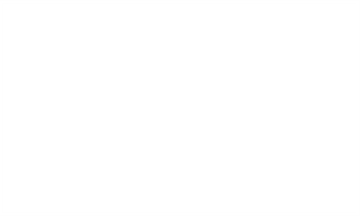
* Terminal Box - Start / End



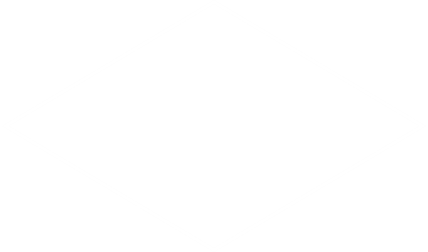
* Input / Output



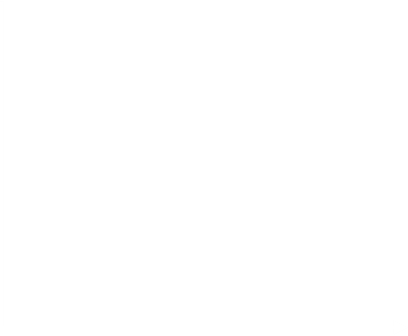
* Process / Instruction



* Decision



* Connector / Arrow



## Pseudocode

Pseudocode is an informal way of programming description that does not require any strict programming language syntax or underlying technology considerations. It is used for creating an outline or a rough draft of a program. Pseudo code summarizes a program’s flow, but excludes underlying details. System designers write pseudo code to ensure that programmers understand a software project's requirements and align code accordingly. For example:

Set total to zero  
Set grade counter to one  
While grade counter is less than or equal to ten  
 Input the next grade  
 Add the grade into the total  
Set the class average to the total divided by ten  
Print the class average

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Enter length, l  
Enter width, w  
Compute Perimeter = 2\*l + 2\*w  
Print Perimeter of a rectangle

PSEUDOCODE

Declare an integer variable called n  
Declare an integer variable sum f  
Declare an integer variable f1  
Declare an integer variable f2  
set loop counter to 2  
set sum to 0  
set f1 and f2 to 1  
set n to 50  
repeat n times  
 sum = f1 + f2  
 f1 = f2  
 f2 = sum  
 print sum  
end loop

PSEUDOCODE