### <u>00 – Flowchart Arabic</u>

#### Download Flowgorithm program:

http://www.flowgorithm.org/download/

Online tool for creating flowchart:

/https://www.101computing.net/flowchart

Join the course using the link:

http://www.acadox.com/class/59626

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#### **Computational problem:**

A problem that can be solved step-by-step with a computer (i.e., Problems that can be solved by following a sequence of computational steps .

Note: this sequence of steps/instructions are called **Algorithm**.

algorithm: a set of steps that defines how a task is performed .

**Programming:** is the process of converting an algorithm into a program using one of the programming languages.

**Problem Solving is the core of computer science.** 

## **Methods of Representing An Algorithm**



Specifies the steps of an algorithm using a traditional graphical tool with standardized symbols.

	Start and end of algorithm
	Processing
	Input or Output
$\Diamond$	Decision
<b>→</b>	Flow of execution

Specifies the steps of algorithm using essentially English Text with programming concepts

	PSEUDOCODE
e.g.,	set total to zero
	get list of numbers
	loop through each number in the list add each number to total end loop
	if number more than zero print "it's positive" message else
	print "it's zero or less" message end if
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# Difference between Pseudo Code & Flowchart

Flowchart	Pseudo Code
Flowchart contains standard symbols to represent different computer operations.	There is no standard for writing pseudo code.
Flowchart is less frequently used as it takes more time to design.	Pseudo code is more frequently used as it takes less time.
It is difficult to modify.	It is easier to modify.
It is a graphical representation of solution.	It is not a graphical representation of solution.