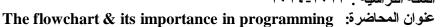


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المرحلة: الثانية

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Introduction

Flowcharts or Process Flow Diagrams are visual diagrams that use symbols to outline the separate steps of a process in sequential order. In other words, A flowchart is a type of diagram that represent an algorithm, workflow or process, showing the steps as boxes of various kinds, and their order by connecting them with arrows. Fig.1 show the flowchart.

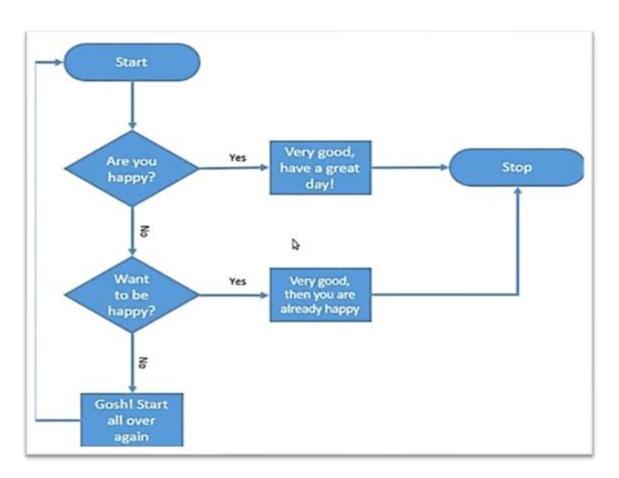
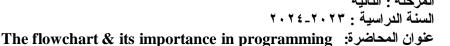


Fig.1: the flowchart



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The flowchart uses

The flowchart is so popular for planning work, one reason for the popularity of flowchart it helps you analyze a process from start to finish. That way, you can help ensure you don't forget to account for steps covering critical inputs, outputs, and procedures.

The flowchart symbols

A flowchart symbol is a graphical representation of a point in a workflow. These are some common flowchart symbols Fig.2:

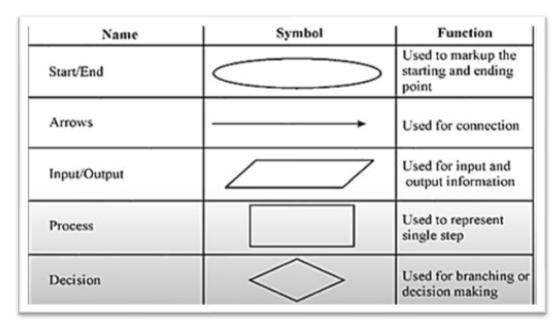


Fig.2: the flowchart symbols

1- Start and End/Terminal

The terminal is an oval symbol used in a flowchart process to indicate when a program starts or stops.

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2- Input/Output

Parallelogram shapes typically represent inputs and outputs. They indicate where a program receives or sends out information. Users rely on the shapes to describe actions like keying in data, displaying information on a screen, or printing it to a separate device.

3- Decision Making

The decision symbol, usually a diamond shape, illustrates the point where a choice must be made. The operation typically involves a yes/no decision or true/false. The path of program flow can change depending on the choice made by a user or an automation process.

4- Process

Process symbol, represented by a rectangle or square box, details specific functions within a program. For example, a programmer might add a process symbol to their flowchart to outline how their program will calculate of adding two numbers together.

5- Arrows

It refers to moving from one step to another within the flowchart.

Note:

- Flowchart is generally drawn from top to bottom
- All boxes of flowchart must connected with arrow
- Decision symbol have 2 exit points, (T/F) (Y/N).

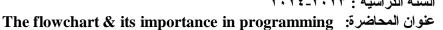


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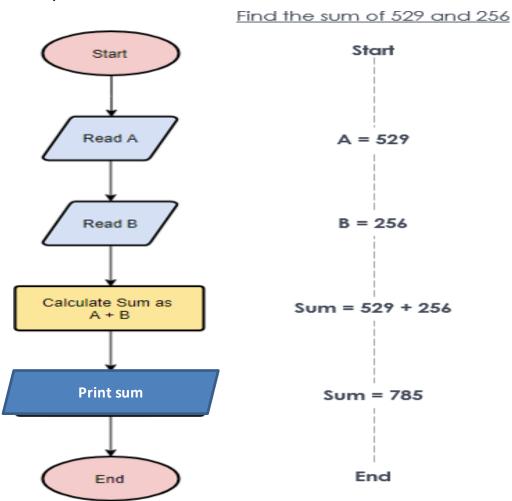




- Flowchart examples

There are a lot of examples about using a flowchart, Some of that:

Exmp1/find the sum of two numbers



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Exmp.2/ check why the lamp is not working?

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