

What is Algorithm?

Algorithm is step-by-step set of instructions or a process designed to solve some problems or perform some operations.

In a simple word it's a key concept in computer science or mathematics to provide some structured approach to do some decision making or task execution.

Key Concepts of Algorithm

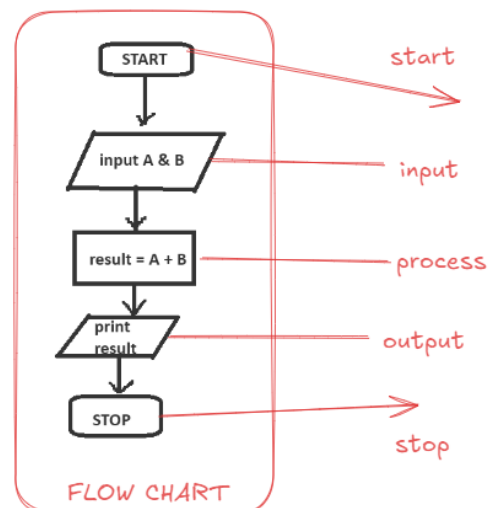
1. **Input:** in any algorithm you can pass 0 or more inputs for process.
2. **Output:** our algorithm can process the given input and generate some result from the same which considered as an output.
3. **Finiteness:** an algorithm must have a finite number of steps. It should terminate after a certain number of steps.
4. **Definiteness:** each step of algorithm must be very clear and unambiguous.
5. **Effectiveness:** steps which you have written must be simple enough to execute by computer or human.

algorithm for adding 2 numbers

Problem: Add 2 numbers, A and B

steps:

1. Take two inputs, A and B.
2. Add A and B
3. print the result.



Algorithm to calculate Factorial of n numbers

1. input a number n.
2. initialize a variable fact = 1
3. for each number i from 1 to n, multiply fact by i
4. print fact

