

ALGORITHMS AND FLOW CHARTS →

An algorithm is a process or step-by-step instruction for solving a problem. They form the foundation of writing a program.

Example →

write an algorithm of adding 3 numbers.

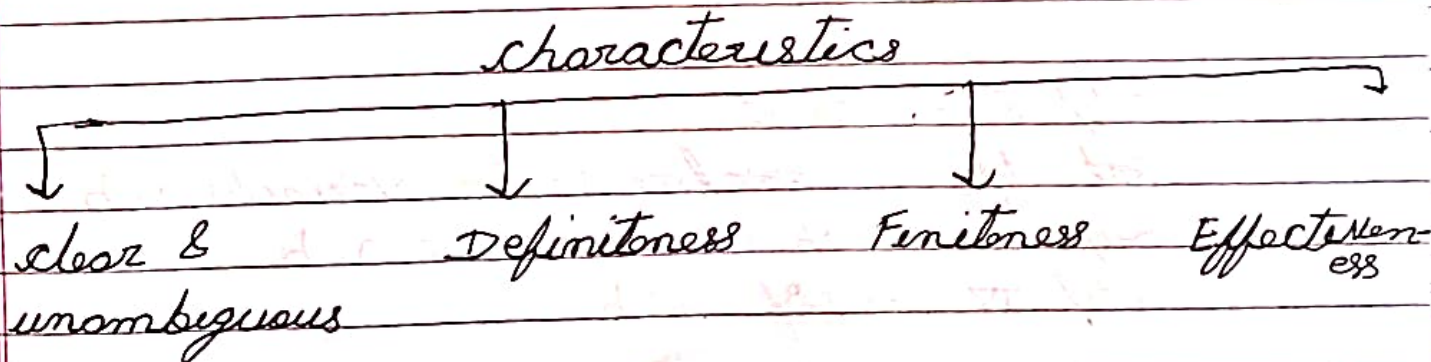
Step I → Start

Step II → Read num1, num2, num3

Step III → $\text{Result} = \text{num1} + \text{num2} + \text{num3}$

Step IV → Print Result

Step V → Stop



Advantage of using algorithm →

1) you can easily understand the nature of the program.

2) Helps in searching / identifying the error

3) Helps in correcting the error

4) Helps to write a complex program in an easy way as because algorithm solves any problem / program step by step.

Examples $\Rightarrow$

1) write an algorithm to calculate an area of a triangle

Step I $\rightarrow$ Start

Step II $\rightarrow$ declare the variables

Step III $\rightarrow$ Area of triangle.

Step IV $\rightarrow$ Print area

Step V = Stop

2) write an algorithm to find the greater of two numbers.

Step I $\rightarrow$ Start

~~Step II~~ $\rightarrow$ ~~declare~~ declare variables a, b

Step III $\rightarrow$ Read variables a, b

Step IV $\rightarrow$ If $a > b$

1 yes Print a

2 No print b

Step V $\rightarrow$ Stop