



The advantages of algorithms are as follows:

- 1.) Algorithms allow the process of actual development of program code.
- 2.) Programmers are able to use the most efficient solution in algorithms as per time and space complexity.
- 3.) Algorithms help in breaking down the solution of difficult problem into a series of simplified sequential steps.
- 4.) With the help of algorithm, we can easily represent the program instructions. It allows other programmers to easily understand and modify it.

Disadvantages of Algorithms

Following are the disadvantages of Algorithms

- 1.) The flow of program control becomes hard to understand for large algorithms.
- 2.) It lacks the visual representation of programming logic as is prevalent in flowcharts.
- 3.) It does not have standard conventions that need to be followed while developing algorithms.
- 4.) It is a time taking process.



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Ex-1 Write down the steps for buying a fan from the market.

Sol: Algorithm is shown below:

Step. 1 Go to the market-

" 2 Search for an electronic shop dealing in fan

" 3 Enter in the shop

" 4 Contact the salesman,

" 5 Ask for the fan

" 6 Choose the fan of your choice.

" 7 Make the payment-

" 8 Get the fan,

" 9 Return to home.

Ex-2

Write an algorithm for calling a friend on the telephone.

Sol: Algorithm is shown below:

Step. 1 Pick up the phone (receiver)

" 2 Dial the friend's number

" 3 If busy, hang-up phone, wait if friend does not reply then jump to step 2.

" 4 If no one answers, leave a message keep down the receiver.

" 5 If no answering machine, then keep down the receiver, and dial after some time.

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Step 6 Talk to friend

Step 7 Keep down the receiver.

Ex-3 Write an algorithm for the Process of ATM machine.

Sol Algorithm is shown below:

Step 1 (Enter the Card) Welcome Customer.

" 2 (Enter the Pin No) and Validate account.

" 3 If account Validate = Yes

" 4 Then, get account information else go to step 2.

" 5 Choose the option.

" 6 If balance enquiry, Then Process transaction and update account and ask another transaction, if Yes Then again go to step 5.

Step 7

If get amount Then Process transaction update account and ask another transaction. if yes Then again goes to step 5.

Step 8

Else close the account and transaction the database

Step 9 Good bye