

LECTURE - 1Algorithm:-

Any programming design has 2 phases. They are:-

→ problem solving phase:-

 → This creates a algorithm that solves the problem.

→ Implementation phase:-

 → This translates algorithm into programming language.

- * Algorithm is a step-by-step procedure for solving a problem.
- * If the algorithm is written in english sentences then that is "pseudo algorithm".
- * Input, output, finiteness, effectiveness and definiteness are the properties of an algorithm.
- * Algorithm must have zero or more number of inputs and produce one or more outputs.
- * Finiteness means the algorithm must terminate in finite no. of steps.
- * Each step of algorithm must be stated clearly that is definiteness.
- * Effectiveness means each step of algorithm must be easily convertible into program statement.

Ex:- Algorithm for finding the average of 3 no.'s.

Step1:- Start

Step2:- Read 3 numbers i.e., a,b,c.

Step 3:- compute sum of the numbers (sum=a+b+c)

Step 4:- compute avg = sum/3

Step 5:- print avg value

Step 6:- stop.