

1.) Efficient and wide Range of Computing:

It has an ability to handle the ~~ability~~ Computations ranging from simple arithmetic operations to large and complex Scientific Calculations.

2.) Networking:

Computer Provides the Connectivity, ranging from few Kilometers to entire world.

3.) Security:

With the help of Passwords and other Security means, it is possible to prevent unauthorized people from seeing the contents of a file.

4.) Durability of Data:

By Keeping the backup of data on storage devices, files can be stored safely for long time duration in a standalone computer. A file server can back up all data easily in the networked system.

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Disadvantages of Computer:

1.) Dependent on user:-

Computers are user dependent.
They cannot work themselves;
users have to give the instructions.

2.) Cannot correct the errors:-

Computers are unable to check and correct errors on their own.

3.) Cannot interact with the user:-

Computers can work only after the user gives the instructions to them. Being a machine, it itself cannot interact with user.

4.) Regular Power Supply:-

For continuous working they require regular power supply.

Definition :

The word Algorithm is taken from a Latin word "algorismus". The meaning of this word is "calculation method". To solve a problem specific set of instructions are used, this set of instructions is known as algorithm. The origin of the word 'algorithm' is the name of Abu Abdullah Muhammad ibn Musa Al-Khwarizmi who was Persian mathematician in 9th century.

A set of rules which can be used to do some task either manually or electronically (computer system) is known as algorithm. Most commonly, this term is used with reference to computers. Generally algorithms are used to provide solutions of different problems.

Algorithms provide effective methods for problem solving. It solves a problem with a finite sequence of instructions. An algorithm is defined as a finite set of well defined instructions for problem solving.

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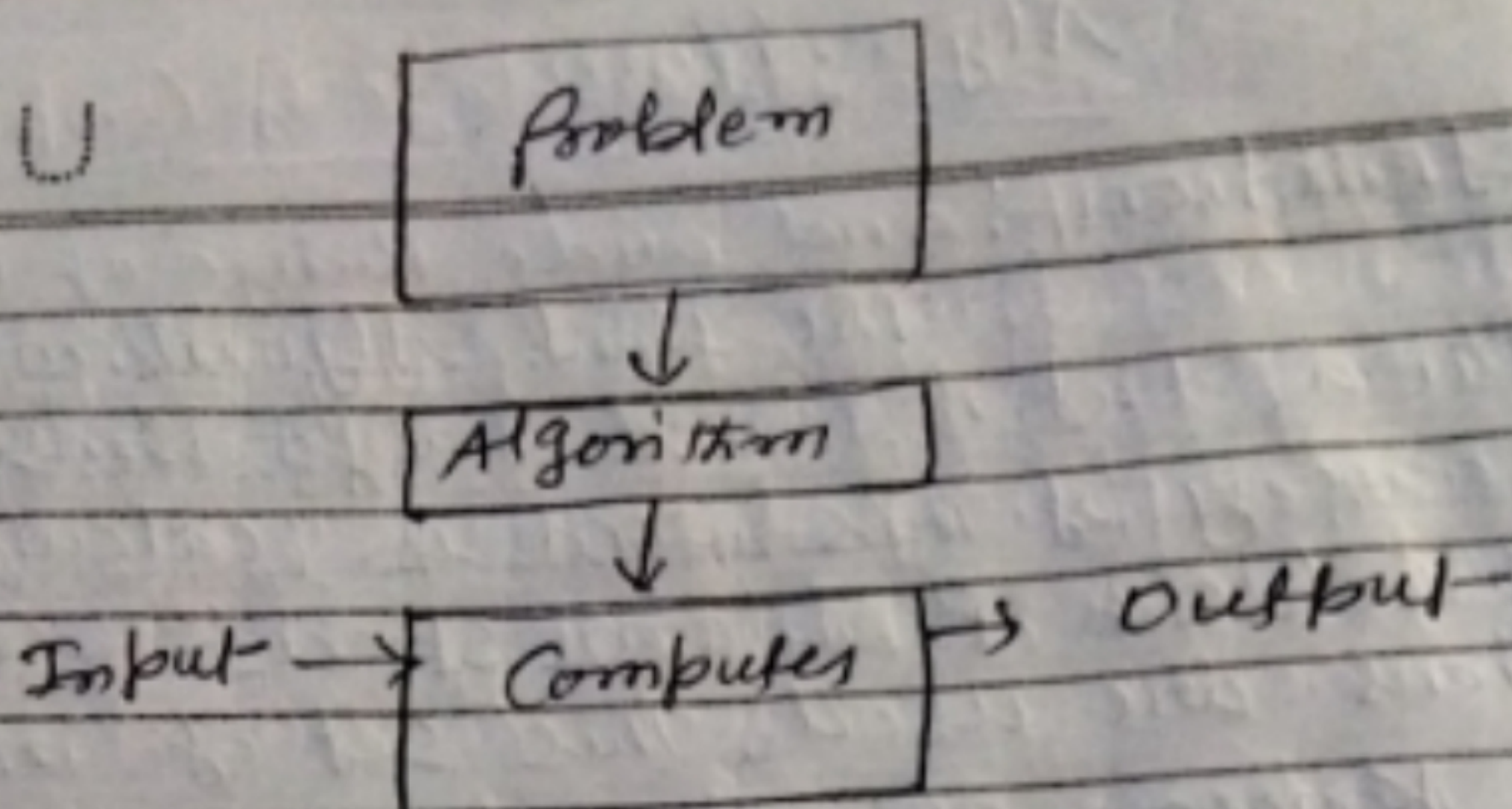


Fig. Algorithm

It takes a valid input and produces desired output in a finite amount of time. It is illustrated in figure

An algorithm is generally used for calculation ~~set~~. And processing data using a sequence of finite instruction set. An algorithm provides step-by-step procedure for problem solving.

According to Stone and Knuth "an algorithm is a set of rules that precisely defines a sequence of operations in such a way that each rule is effective and definite and that the sequence terminates in a finite time."