

Good Morning Students,

Students, this lesson is for class VIII, for the subject of Computers. Topic is 'Algorithm and Flowcharts' which is covered in ch-4.

So, I hope all the students are ready for today's lesson. Children, in this chapter you will learn about new topic of computers that is related to programming. Like before constructing a building maps are drawn on paper, similarly before writing a program, an algorithm and Flowchart are created.

It is easy to first develop an algorithm and then convert it to a flowchart and later into a computer program. Let us discuss about an Algorithm.

Algorithm:- It is a set of rules and sequential steps that define how a particular problem can be solved in a finite and ordered sequence. An algorithm describes the method by which a problem can be solved. Let us now discuss about the rules for writing an Algorithm.

Class-VIII

Subject-Computer

Topic-Algorithm and Flowcharts(Ch-4)

Subject Teacher-Prabhdeep Kaur

Rules

1. An Algorithm should be written in English language.
2. It should be written in a simple and precise manner.
3. Each step should be in a sequential manner.

children, let us now learn about characteristics of an Algorithm.

1. Input :- The Input data must be available before operation.
2. Definiteness :- Each instruction or step of an algorithm must be precisely defined and every action must be definite.
3. Finiteness :- It should involve finite number of steps to reach a solution.
4. Output :- User must get the desired result, after the instructions are executed.

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Children, let us write an algorithm to show the process of making Tea.

1. Take a pan, water, sugar, tea leaves, milk.
2. Put pan on gas burner and pour water into it.
3. Turn on the gas.
4. Put some sugar and tea leaves.
5. Let the water boil.
6. Now add some milk.
7. After boiling, switch off the gas.
8. Sieve the tea in a cup.
9. Drink the tea.

So, writing an algorithm is an easy process. You have to just follow a sequence and get the desired result.

Now, let us write an algorithm to calculate the sum of three numbers.

1. Input the first number, say (A).
2. Input the second number, say (B).
3. Input the third number, say (C).
4. Find the sum of three numbers ($A+B+C$).
5. Print the sum.

So, in above given example of an algorithm, it is shown how to solve a particular problem. This step by step procedure to solve any logical and mathematical problem is called an algorithm.

Children, now I am ending the lesson. Kindly read the given assignment carefully.