

CHAPTER-3 (STEP WISE THINKING)

EVALUATE

A Tick (✓) the correct answer.

1. Every activity has a sequence of steps that need to be followed.

- a. steps b. stairs c. rounds

2. A computer completely depends on our instructions for its.

- a. working b. program c. decision

3. It is the main steps in thinking work.

- a. Processing b. Flowing c. Input/output

4. A _____ uses some special symbols.

- a. algorithms b. presentation c. flowchart

B Fill in the blanks.

1. Terminal box is the starting/ending point in a flowchart.

2. All the steps involving Processing work are written in process box.

3. The IPO cycle of computer works on stepwise thinking.

4. The steps written in order to solve a particular problem is called an algorithm.

C Write 'T' for true and 'F' for false statements.

1. An algorithm is a diagram that represents instructions.

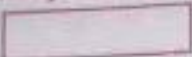
2. Terminal box is used for taking input.

3. Algorithms use some special symbols.

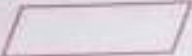
4. The arrows in a flowchart connects two boxes.

F
F
F
T


D Identify the symbols of the flowchart and write its purpose.

1.  Process Box

used to write process inside box.

2.  Input/Output Box

used to write input and display output.

3.  Flow Lines

Arrows in a flow chart connects two boxes.

4.  Terminal Box

used to write start or stop inside this box.

E Answer the following questions.

1. You have to celebrate your birthday with your friends. List the detailed steps you will follow. Also make a flowchart.

2. What is meant by stepwise thinking? How is it done?

3. How is an algorithm and flowchart connected? What purpose do they serve?

4. Complete the given flowchart of preparing a sandwich by taking hints from the chapter.

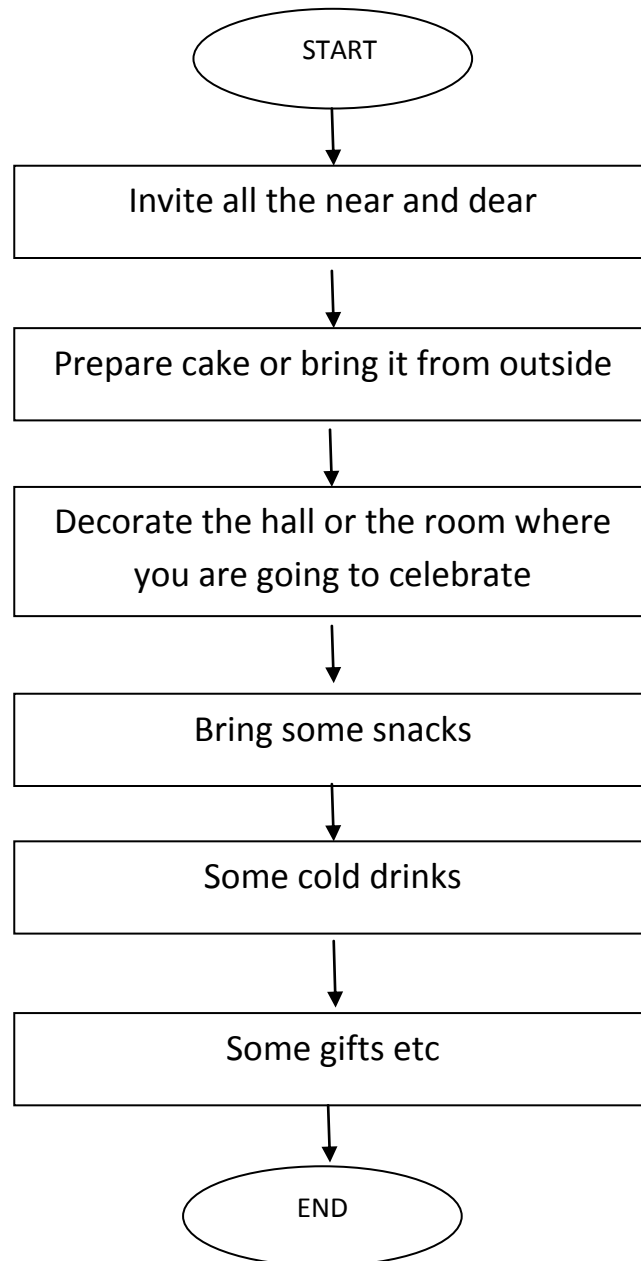
ANSWER THE FOLLOWING QUESTIONS.

You have celebrated your birthday with your friends. List the detailed steps you will follow. Also make a flow chart.

The steps we follow are:

- Invite all the near and dear.
- Prepare cake or bring it from outside.
- Decorate the hall or the room where you are going to celebrate.
- Bring some snacks.
- Some cold drinks.
- Some gifts etc.

The flow charts are:



What is meant by stepwise thinking? How is it done?

The process of completing one step and jumping onto the other is known as Step-wise Thinking. Every activity has a sequence of steps that needs to be followed.

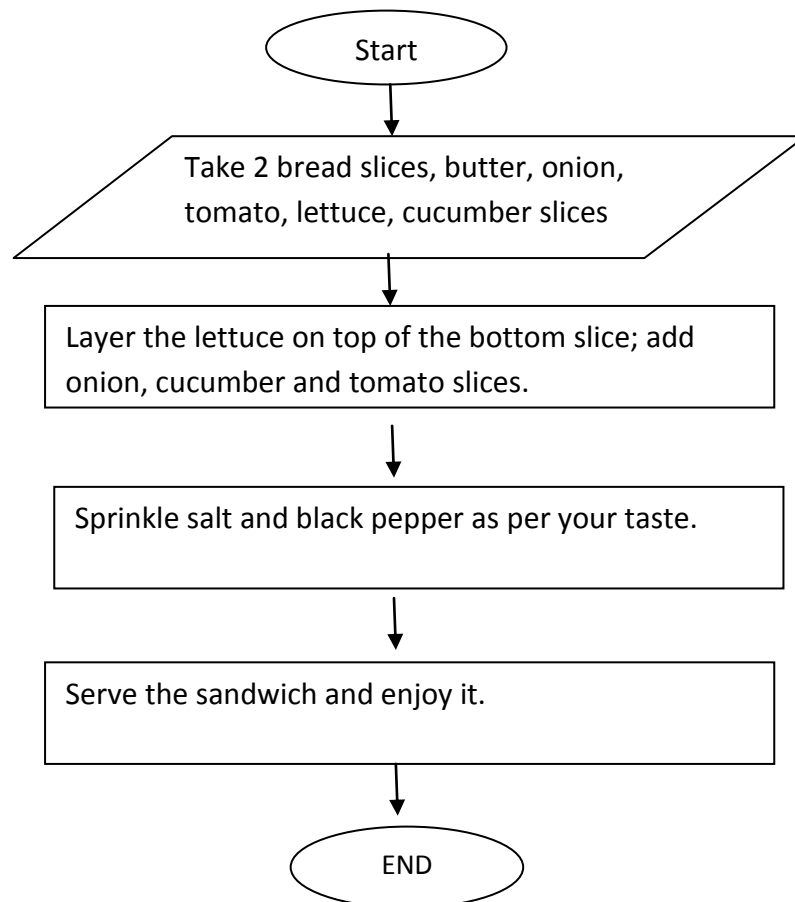
Steps:

- List the main steps of the activity.
- Each main step is further divided into smaller steps
- Look out for the sequence of order.
- Computer works only on the step-by-step instructions given by us.

How is an algorithm and flow chart connected? What purpose do they serve?

An algorithm shows you every step of reaching the final solution, while a flowchart shows you how to carry out the process by connecting each step. An algorithm uses mainly words to describe the steps while a flowchart uses the help of symbols, shapes and arrows to make the process more logical.

Complete the flow chart of preparing a sandwich by taking hints from the chapter.



Write an algorithm for the following activities.

1. Washing clothes in a machine.

- Put hot water in a machine.
- After 5 minutes we add detergent power in it.
- Start the rolling button for 15 minutes.
- Add the cloth in the machine.
- Push that button for 15 minutes.

2. Preparing tea for guests.

- Put the teabag in a cup.
- Fill the kettle with water.
- Boil the water in the kettle.
- Pour some of the boiled water into the cup.
- Add milk to the cup.
- Add sugar to the cup.
- Stir the tea.
- Drink the tea.
