

Algorithm & Flow chart

Problem Solving

The problem needs to be analyzed well before solving it. The process of problem solving

- **Input** - Things to be need to solve problem
- **Process** - Guideline to solve the problem
- **Output** - The result of problem

Example 01

Problem - How to preparing fruit salad.

Input - Variety of fruits

Process - Washing , cutting , mixing fruits

Output - Fruit salad

Activity 01

Find and write the Input , Process and Output for the following problem

Problem - How to find the area of Rectangle (area= length*width)

Input

Process

Output

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Algorithm

Algorithm is

Include the all the steps of solving problem in orderly.

When writing algorithm , every algorithm has **Start** and **End.**

Example 01

Write the algorithm for preparing a cup of tea.

- Step 01 : Put the teabag in a cup.
- Step 02 : Fill the kettle with water.
- Step 03 : Boil the water in the kettle.
- Step 04 : Pour some of the boiled water into the cup.
- Step 05 : Add milk to the cup.
- Step 06 : Add sugar to the cup.
- Step 07 : Stir the tea.
- Step 08 : Drink the tea

Activity 02

Prepare the algorithm steps in orderly by putting the correct number.

Problem – Write the algorithm for find the area of Rectangle

(Rectangle= length*width)

Get the length of rectangle

End

Get the width of rectangle

Area=width*length

Area of rectangle

Start

1 2

3 4

5 6

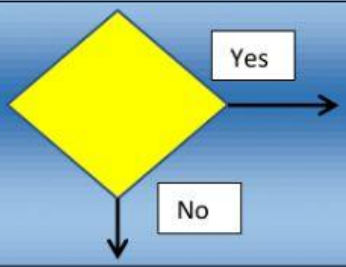
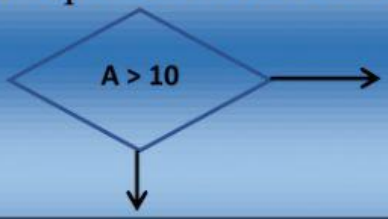
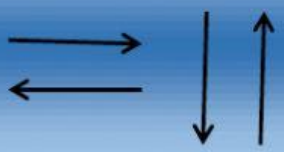
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Flow chart

Flow chart is

Graphical representation for the algorithm steps.

Flow chart symbols

Symbols	Usage
	Used to represent **Start** and **End** 
	Used to **Input** and **Output** data 
	Used to represent **process** 
	Used to represent **decision** making 
	Used to represent the **data flow**

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Example 01

Draw the flow chart to calculate area of rectangle.

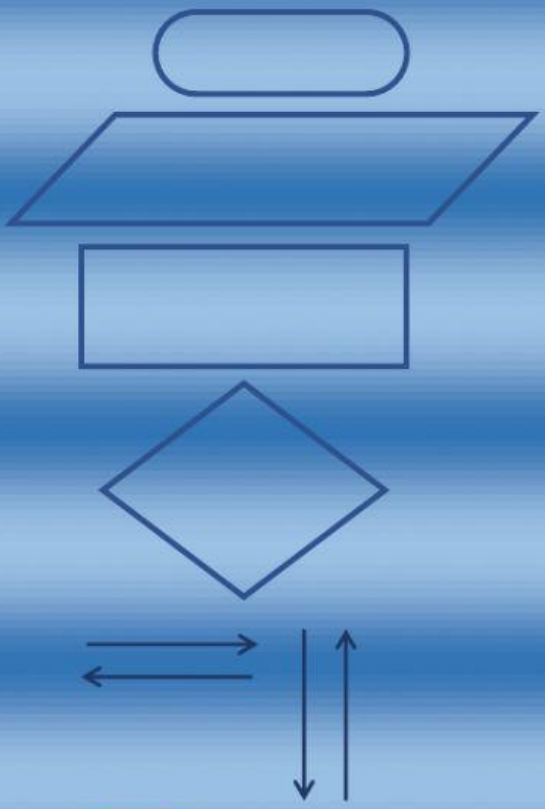


Refer the video for more details

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Activity 03

Match the flow chart symbol with the correct name .



Input / Output

Data flow

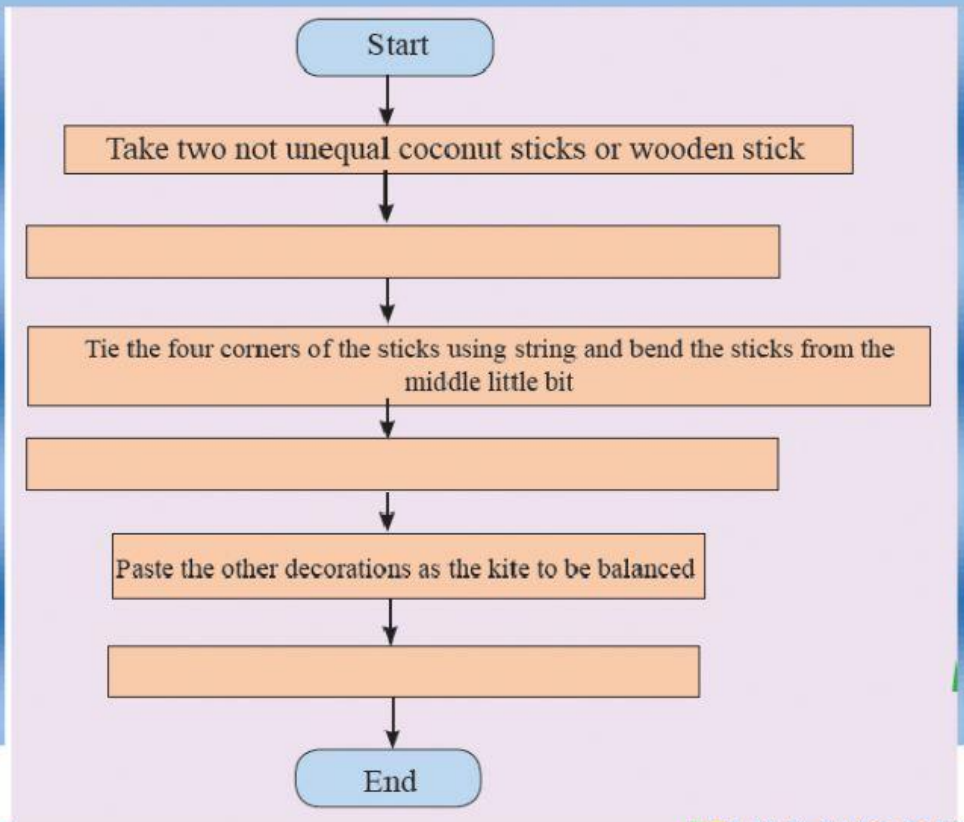
Decision

Start/End

Process

Activity 04

Find the correct answer and select the answer to prepare the flow chart to make a kite.



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Activity 05

Click to Interactive activity

Activity 05

Click to interactive activity

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