CSE 1110
Introduction to
Computer System



# Remember? How a computer completes a task in our previous class?

Let's consider another situation,

Tell your friend to find the area of a rectangle.

How will your friend carry out this task??



Let's consider another situation,

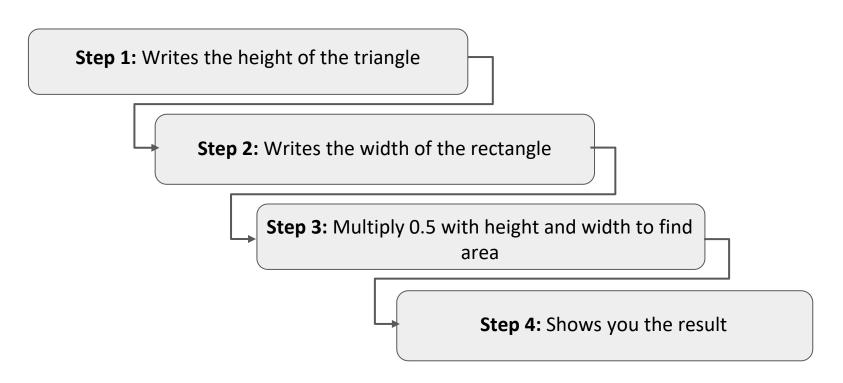
Tell your friend to find the area of a triangle.

How will your friend carry out this task??



# **Solution Steps**

Let's take a look at the steps taken by your friend to solve this problem:



Let's consider another situation,

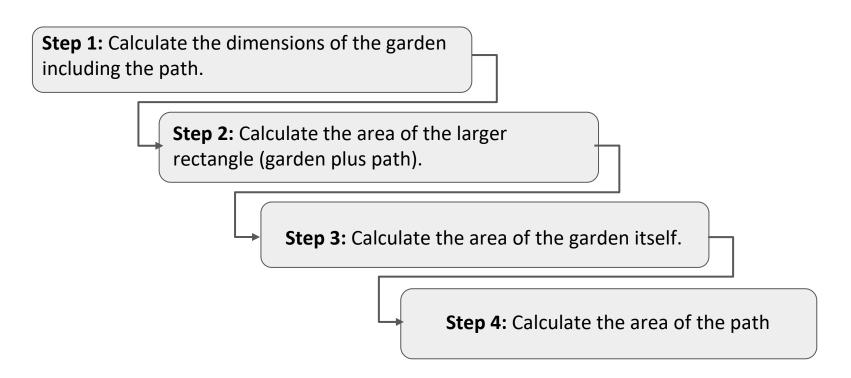
The width and length of a rectangular garden are 20 meters and 15 meters, respectively. There is a road of width 2 meters around the outside boundary of the garden.

What will be the area of the path around the boundary of the garden?



# **Solution Steps**

Let's take a look at the steps taken by your friend to solve this problem:



We've discussed about processes so far.

But what if I told you there's a way to show a problem's solution through a visual representation?

## Step-by-Step process to make a cup of tea

- Begin the process.
- Collect tea bag, cup, kettle, water, etc.
- ➡ Boil Water, Turn on kettle.
- Place tea bag in cup or tea leaves in teapot.
- > Pour over tea bag or into teapot.
- → Wait for 3-5 minutes.
- Take out tea bag or strain leaves.
- Add milk, sugar, and stir.
- Drink the tea.













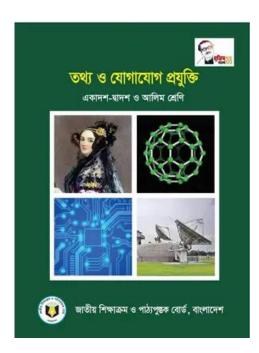


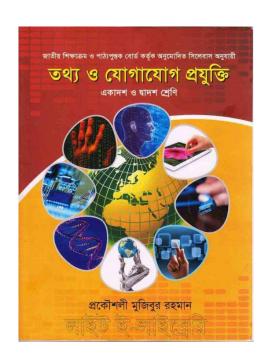


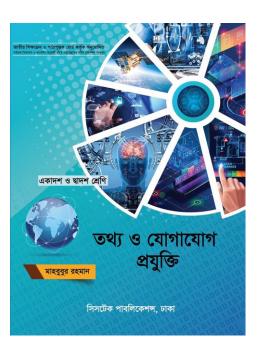
Now that we've gone through the step-by-step process of making a cup of tea and also seen it represented visually, which one did you find easier to understand and why?

# **Flow Chart**

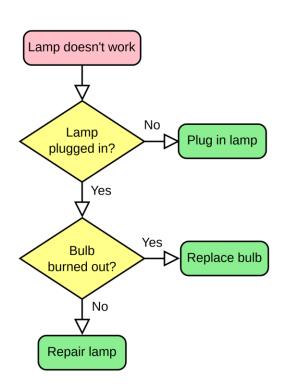
#### Do you remember this books?

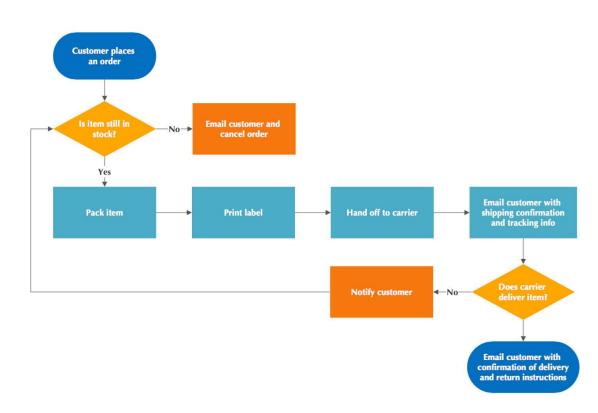


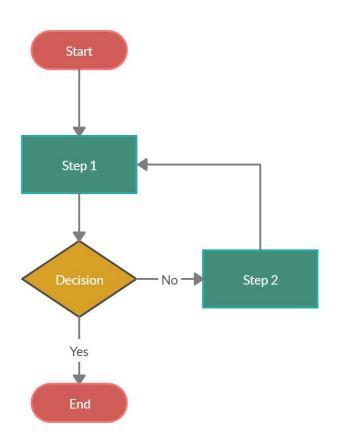




#### Do you remember this from the books?







#### **Flowchart**

Oval

Represents the start or end of a process.

## Rectangle

Denotes a process or operation step.

#### Arrow

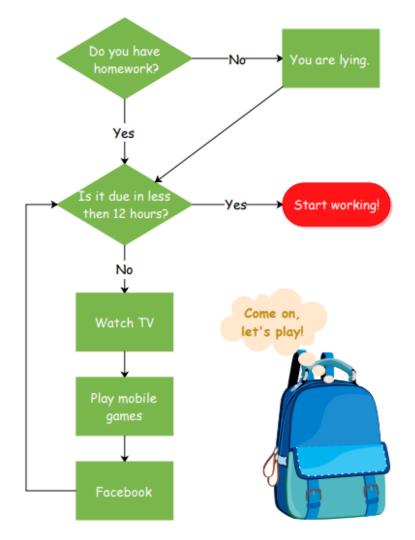
# Indicates the flow Between steps.



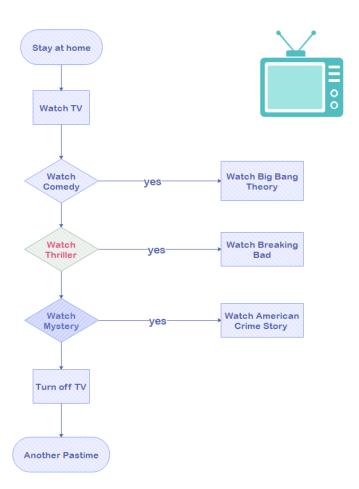
Signifies a point requiring a yes or no.

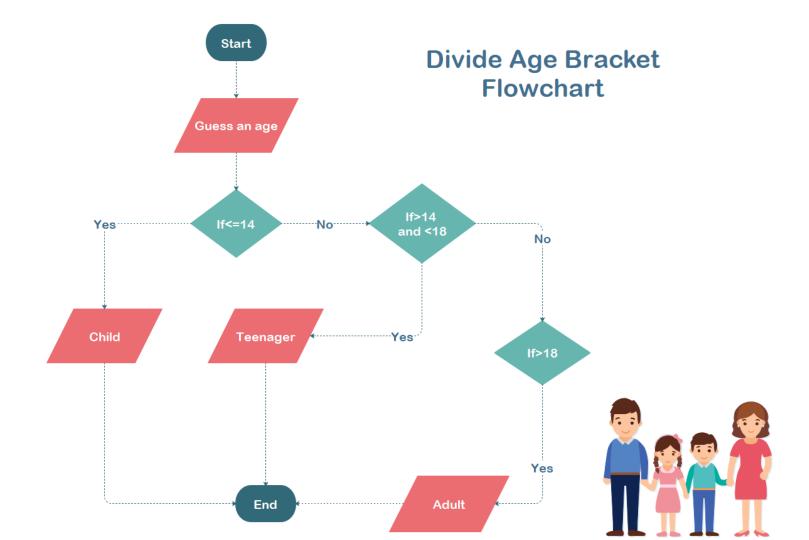
**Parallelogram** 

Used for input or output operations.



#### What Kind of TV Should I Watch?



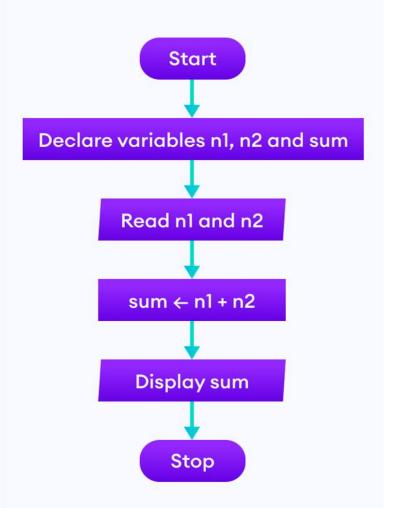


Let's consider a situation/problem,

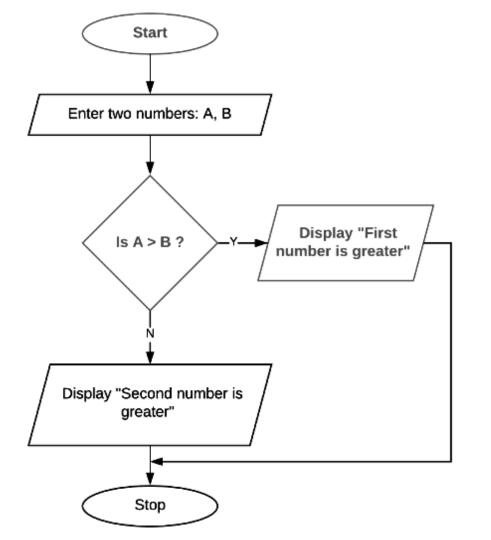
Tell your friend to find the sum of two numbers.

How will you do it using flow chart??

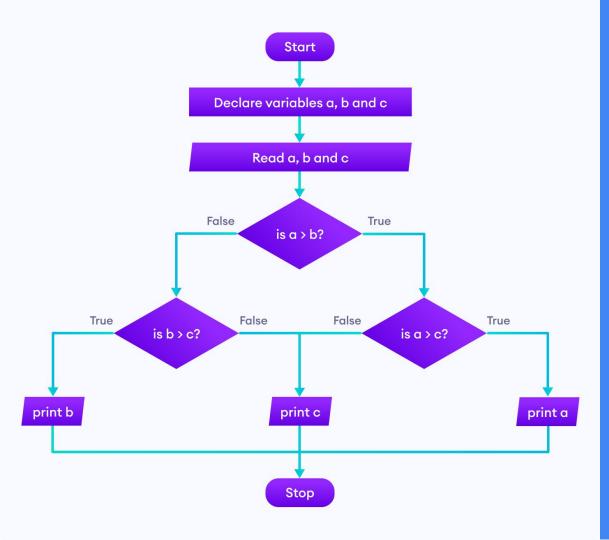




# Flowchart of a Sum of two numbers



# Flowchart of a Largest of two numbers



# Can you make a flowchart of largest of three numbers?

- → Install CodeBlocks in your Laptop/PC
  (CodeBlocks IDE Installation on Windows 10/11
  [2023 Update] MinGW GCC Compiler | C & C++
  Programming (youtube.com))
- **→** What is MinGW GCC Compiler?

#### **NEXT CLASS TASK**

### **Any Questions?**

# Thank you