

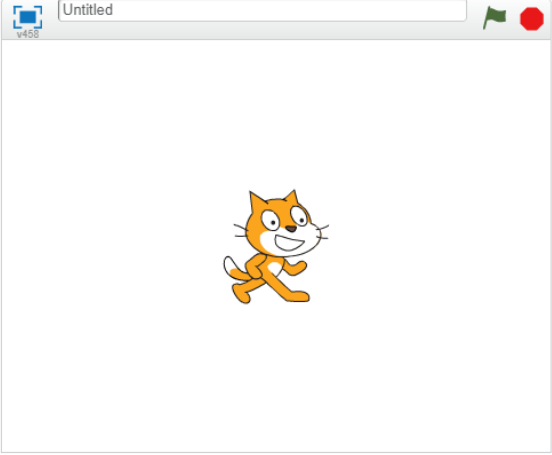
# SCRATCH

Block Programming

<https://www.youtube.com/watch?v=HZTNUXzgZ0o>

Scratch File Edit Tips About Join Scratch Sign in

Untitled



x: -240 y: -114

Sprites New sprite: [ ] [ ] [ ] [ ]

Stage 1 backdrop

New backdrop: [ ] [ ] [ ]

Sprite 1

Scripts Costumes Sounds

- Motion
- Looks
- Sound
- Pen
- Data
- Events
- Control
- Sensing
- Operators
- More Blocks

move 10 steps

turn 15 degrees

turn 15 degrees

point in direction 90

point towards mouse-pointer

go to x: 0 y: 0

go to mouse-pointer

glide 1 secs to x: 0 y: 0

change x by 10

set x to 0

change y by 10

set y to 0

if on edge, bounce

set rotation style left-right

x position

y position

direction

x: 0 y: 0

Scratch logo

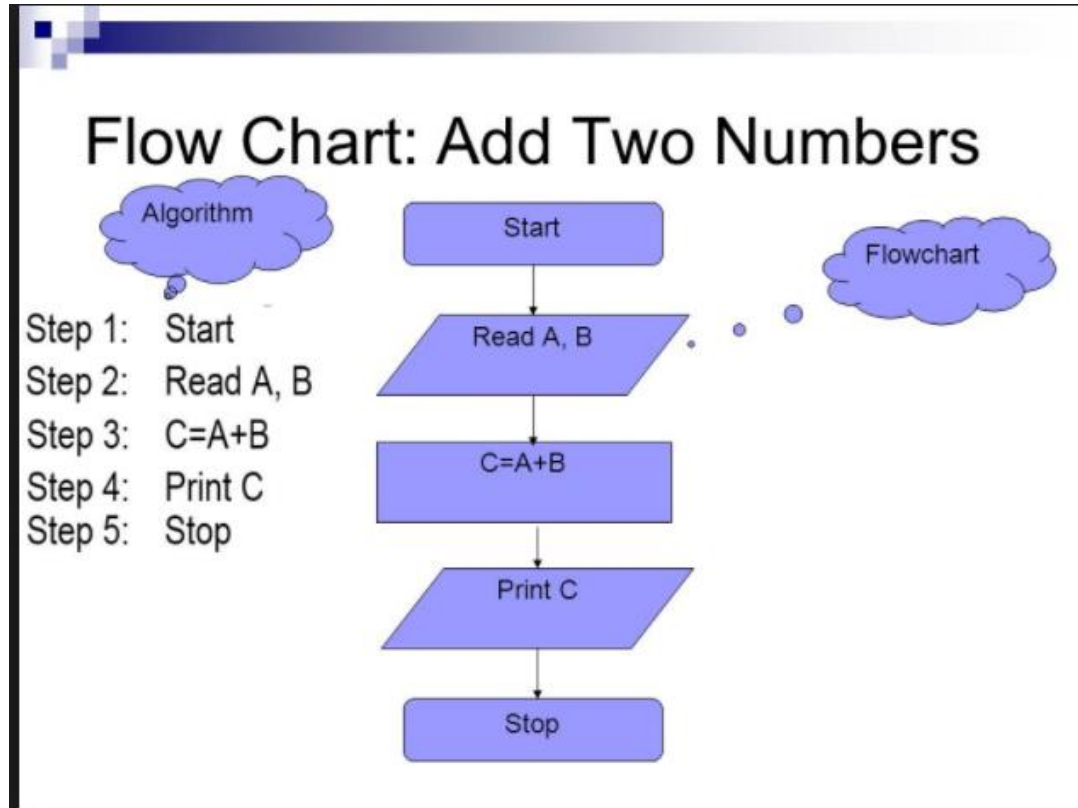
# What are you trying to do?

Add 2 numbers

What is the method?

$$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$$

# Logic Diagram



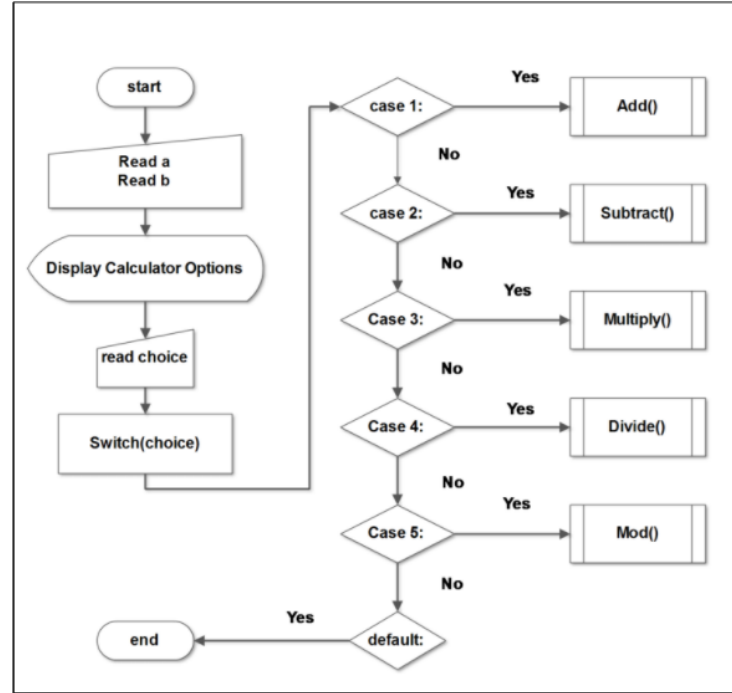
## Rules for naming variables:

- choose a name that describes what the variable represents.
- All variable names **must** begin with a letter of the alphabet.
- Variable names may then contain letters and the digits 0 to 9.
- **No spaces or special characters are allowed.**

# Additional Variable Considerations

- The name can be of any length.
- Remember that you will have to type this name.
- Uppercase characters are distinct from lowercase characters.
- Using ALL uppercase letters are primarily used to identify constant variables.
- You cannot use a keyword (reserved word) for a variable name.

# Calculator:





## Project (6-7-8): Add 2 Numbers

<https://www.youtube.com/watch?v=HZTNUXzgZ0o>

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# Add 2 Numbers

Initialize variables to clear garbage from last run.

Input two numbers  
Add together  
Say the answer

Program: Add two numbers  
Programmer: Timothy Lawman  
date: 29 / 5/2014

when  clicked

set num1 to 0

set num2 to 0

set result to 0

ask What's is your first number? and wait

set num1 to answer

ask What's is your secondnumber? and wait

set num2 to answer

set result to num1 + num2

say join The result is result for 2 secs

ask Continue? (no to stop)? and wait

If Adobe Air is needed:

<https://get.adobe.com/air/>