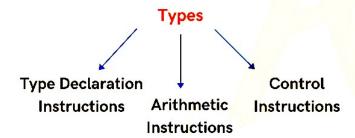
Instructions

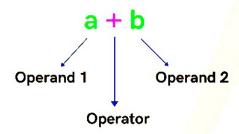
These are statements in a Program



Instructions

Type Declaration Instructions — Declare var before using it

Arithmetic Instructions



NOTE - single variable on the LHS

Arithmetic Instructions

$$a = b + c$$
 $b + c = a$

$$a = b/c$$
 $a = b^c$

NOTE - pow(x,y) for x to the power y

Arithmetic Instructions



Returns remainder for int

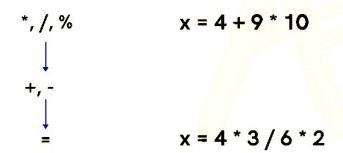
Arithmetic Instructions

Type Conversion

$$\quad \text{int} \quad \overset{\text{op}}{\longrightarrow} \quad \text{int} \quad \longrightarrow \quad \text{int} \quad$$

Arithmetic Instructions

Operator Precedence



Arithmetic Instructions

Associativity (for same precedence)

Left to Right

$$x = 4 * 3 / 6 * 2$$

Instructions

Control Instructions

Used to determine flow of program

- a. Sequence Control
- b. Decision Control
- c. Loop Control
- d. Case Control

Operators

- a. Arithmetic Operators
- b. Relational Operators
- c. Logical Operators
- d. Bitwise Operators
- e. Assignment Operators
- f. Ternary Operator

Operators

Relational Operators

==

>,>=

<, <=

!=

Operators

Logical Operators

&& AND

|| OR

! NOT

Operator Precendence

Priority

1

2

3

4

5

6

7

8

Operator

*,/,%

<, <=<mark>, >, ></mark>=

==,!=

&&

Operators

Assignment Operators

+=

%=