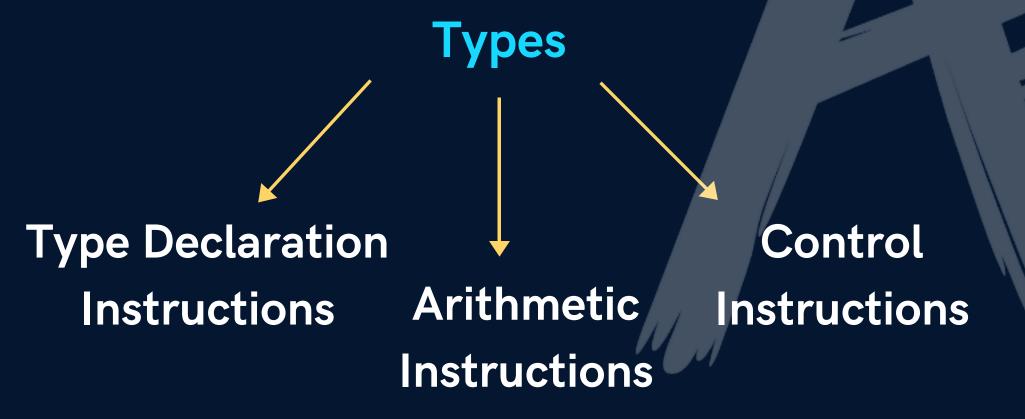
Instructions

These are statements in a Program



Instructions

Type Declaration Instructions

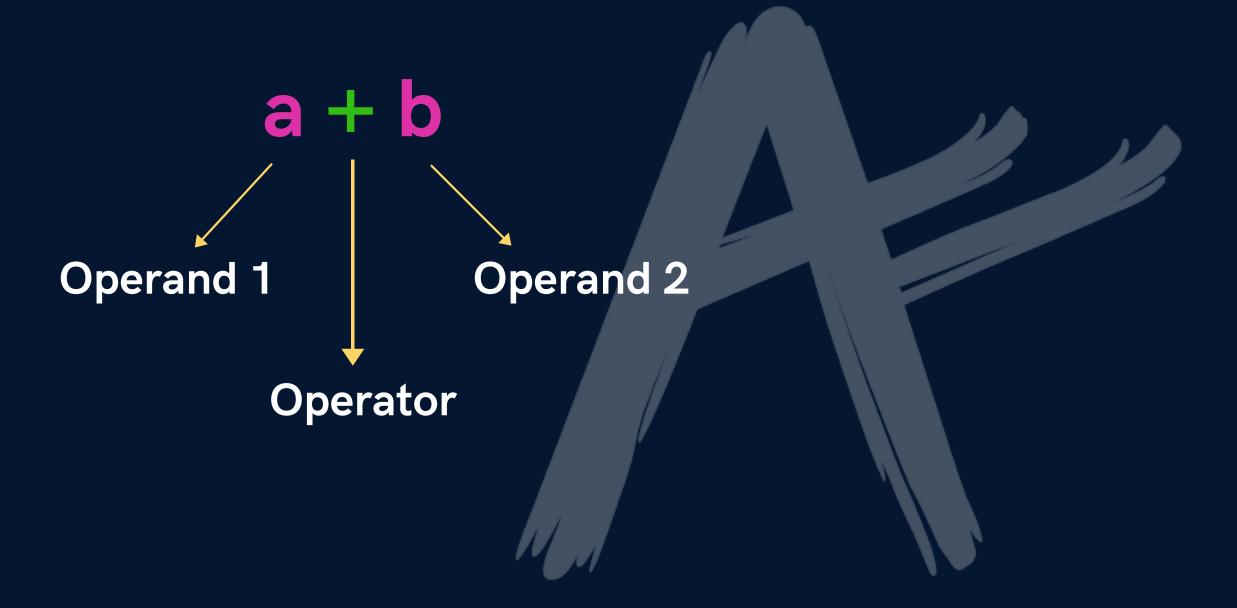
Declare var before using it

VALID

int a = 22; int b = a; int c = b + 1; int d = 1, e;

INVALID

```
int a = 22;
int b = a;
int c = b + 2;
int d = 2, e;
```



NOTE - single variable on the LHS

VALID

$$a = b + c$$

$$a = b/c$$

INVALID

$$b + c = a$$

$$a = b^c$$

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



Modular Operator %

Returns remainder for int

Type Conversion

int op int ---- int

int op float ------ float

float op float ------ float

Operator Precedence

$$x = 4 + 9 * 10$$

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

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

a. Arithmetic Operators

b. Relational Operators

c. Logical Operators

d. Bitwise Operators

e. Assignment Operators

f. Ternary Operator

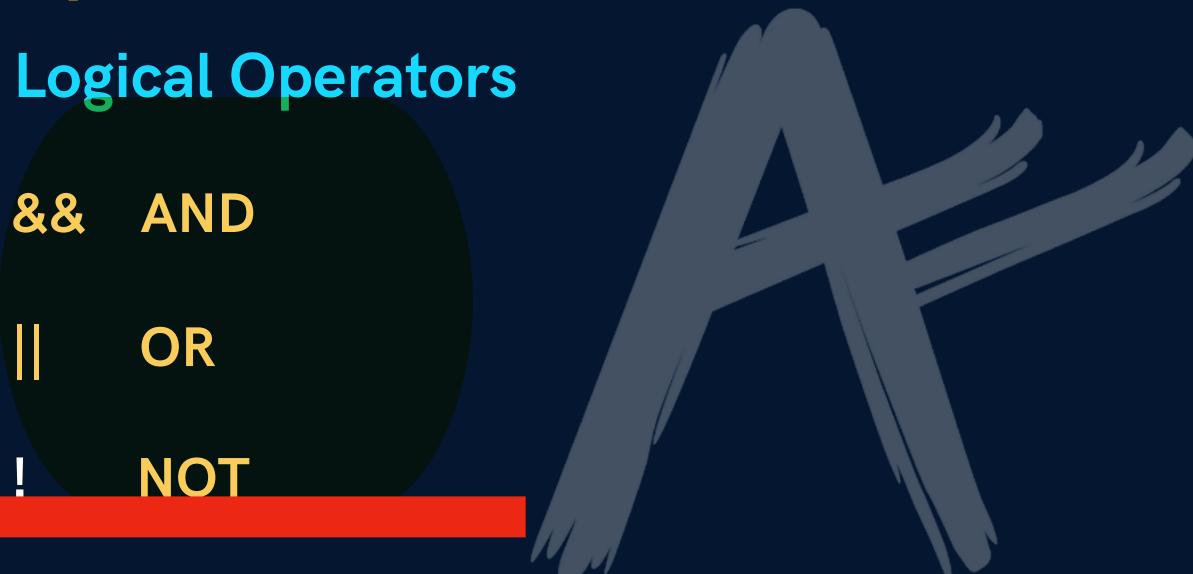


Relational Operators

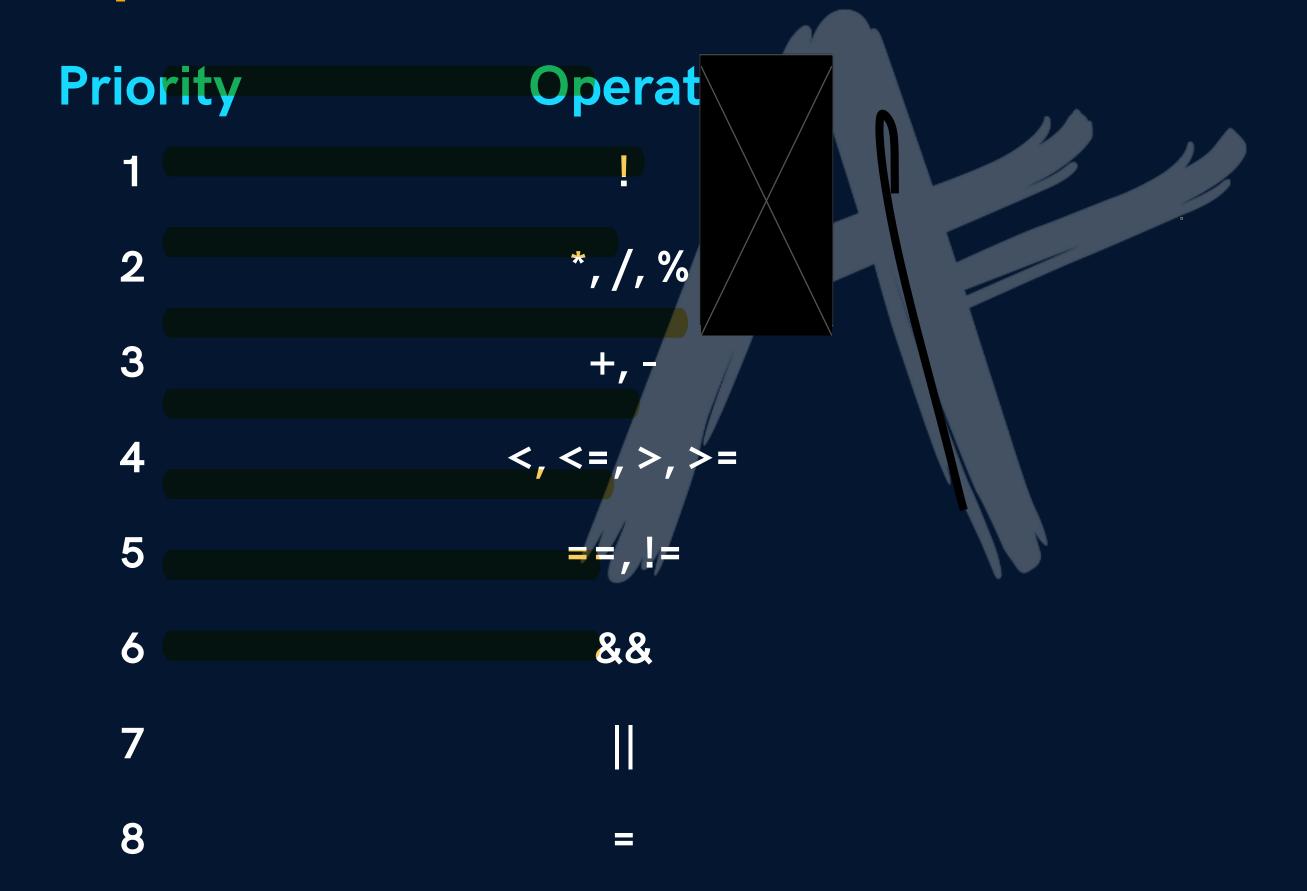
==

!=





Operator Precendence



Assignment Operators
=
+=
-=

/=

%=