Operators

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Unary operators :- operators, which req. only 1 operand to fulfill their task are known as unary operators.

'+', '-', ++, --, sizeof(_)

decrement

increment

int a = 10;
int b = -10;

Arithmetic op :- requires 2 operands & assumes both operands are numbers (int, float, double)

'+', '-', '*', '/', '%' → remainder.

Brackets [] → they are generally used for either accessing value, [] or increasing precedence ()

Assignment '=' used for assigning values.

prop → it returns value, it assigns.

Relational Op. :- Very similar to arithmetic o/p., because they also assumes that both operands are numbers.

only difference is they are used for comparison and they always return / evaluate to either 0 or 1 i.e. true or false.

Logical operators :-

Logical AND → requires 2 operands.

→ similar to AND Gate

→ used for checking conditions.

v1 && v2 → either eva. to 0 or 1
F or T

v1 && v2 → result

v1	v2	result	
0/F	0/F	0/F	If all values are true/1 then only it will give true.
0/F	0/F	0/F	
1/T	0/F	0/F	
0/F	1/T	0/F	
1/T	1/T	1/T	

↙

it will stop executing as soon as

It will stop executing as soon as it gets first false value.

Logical OR '||' → similar to OR gate.
→ If any value 1 → 1.
else false/0.

v1	v2	res
0	0	0
0	1	1
1	0	1
1	1	1

→ T.T of '||'

Logical NOT '!' → this works on single operand. (unary operator)

flip
T → F
F → T
} T.T for '!'

In C++, any non zero value is true; 1, 0.1, -10, -4, 'A', true, !false, are true values

. . false values are

are true values

In other words, only false values are 0 and false, rest all are true.

Increment / Decrement operators.

pre Increment

```
int a=10;
++a;
```

pre Decrement

post Increment

```
int a=10;
a++;
```

post Decrement.

pre means → pehle increment/decrement hoga fir task hoga.

post means → pehle task hoga, fir increment/decrement hoga.

```
int a = 10;
int b = a++;
int c = ++a;
```

a: 12 ~~11~~ ~~10~~ b: 10 c: 12