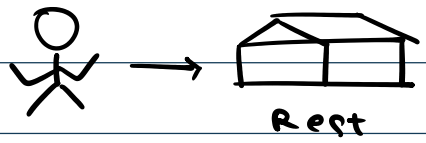
Operators

Logical operators

they are used to determine the logic b/w two or more expressions.



sal > 10000 → conditional

&&

savings > 100000

⇒ return type boolean.

Logical
- && (and)
- || (or)
- ! (not)

&& (and)

exp1 && exp2

true → only when exp1 and exp2 both are true.

exp1	exp2	exp1 && exp2
T	T	T
T	F	F
F	T	F
F	F	F

|| (OR)

exp1 || exp2

true → Incase anyone of the exp^n's are true.

exp^n 1	exp^n 2	exp1 || exp 2
T	T	T
T	F	T
F	T	T
F	F	F

Not (!)

true => false

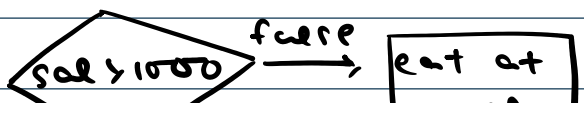
false => true

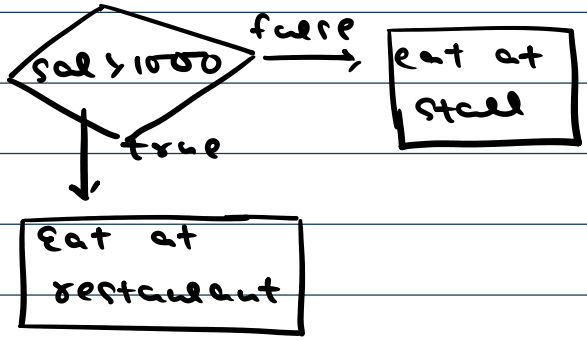
it inverts the exp^n.

It always converts wrong data type into right data type.

Conditions

if-else conditions






```
if ( condition ) {
    // action 1
}
else {
    // action 2
}
```

condition if true => perform action 1

else => perform action 2

↓

condition if false

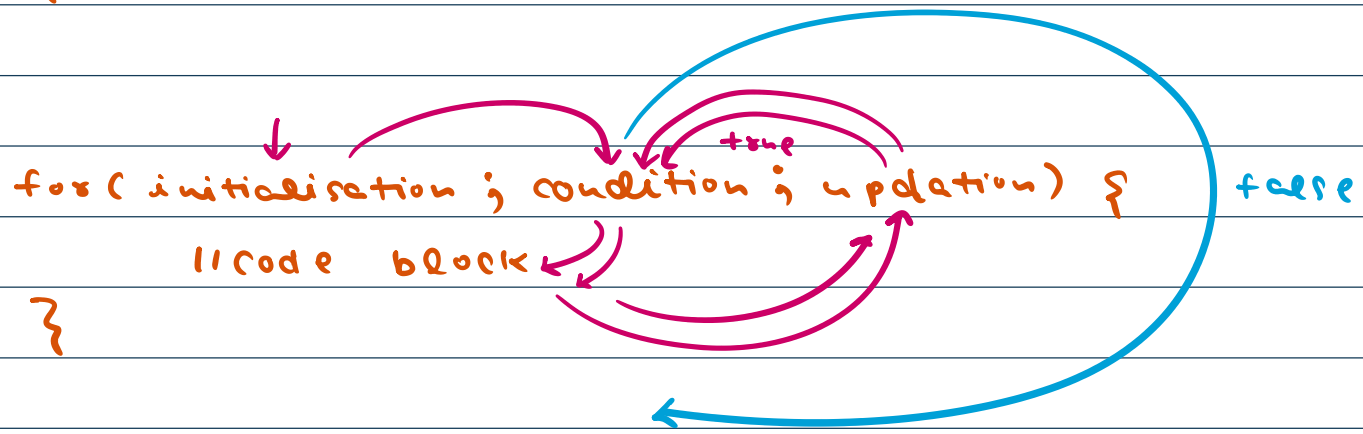
* else if optional.

Loop

when we want to repeat a certain thing again and again. (finite no. of times)

Syntax of loop :-

```
for ( initialisation ; condition ; updation ) {
        //code block
}
```



To print my name ~~100~~ 5 times

```
for ( var i = 0 ; i < 5 ; i++ ) {
        console.log("Akash");
}
```

i++ ⇒ i = i + 1

Dry run

i: 0 ⇒ 0 < 5 ⇒ Akash ⇒ i: 1
i: 1 ⇒ 1 < 5 ⇒ Akash ⇒ i: 2
i: 2 ⇒ 2 < 5 ⇒ Akash ⇒ i: 3
i: 3 ⇒ 3 < 5 ⇒ Akash ⇒ i: 4
i: 4 ⇒ 4 < 5 ⇒ Akash ⇒ i: 5
i: 5 ⇒ 5 < 5 ⇒ X

While loop

While loop

```
for( init ; condition ; updation ) {
    // code - block
}
```

```
init
while (condition) {
    //code - block

    updation
}
```