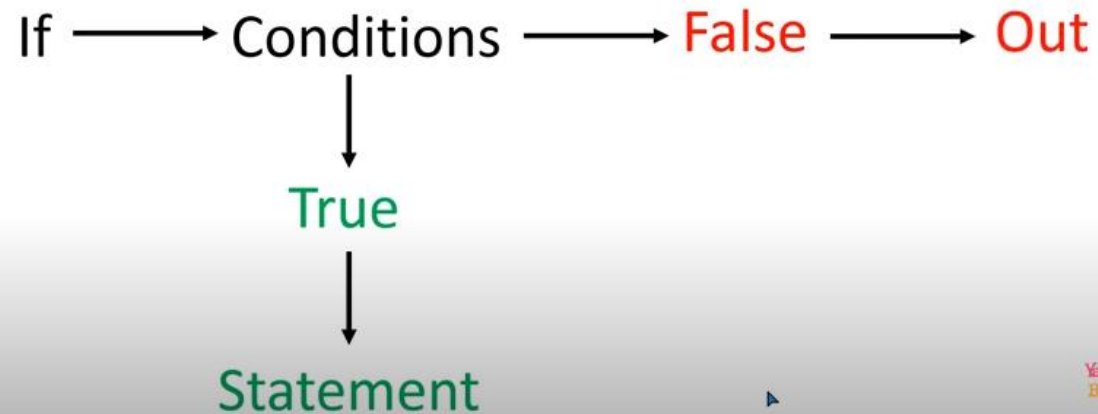# Conditional Statements

Very often when you write code, you want to perform different actions for different decisions.

You can use conditional statements in your code to do this.

In JavaScript we have the following conditional statements:

- Use `if` to specify a block of code to be executed, if a specified condition is true
- Use `else` to specify a block of code to be executed, if the same condition is false
- Use `else if` to specify a new condition to test, if the first condition is false
- Use `switch` to specify many alternative blocks of code to be executed

What is If Statement ? :

If ⟶ Conditions ⟶ False ⟶ Out
                        │
                        ▼
                      True
                        │
                        ▼
                   Statement

If Statement in JavaScript :

```
If(Condition True){
    Statement
}
```

If Else Statement in JavaScript :

```
If(Condition True){
    Statement for True
} else {
    Statement for False
}
```
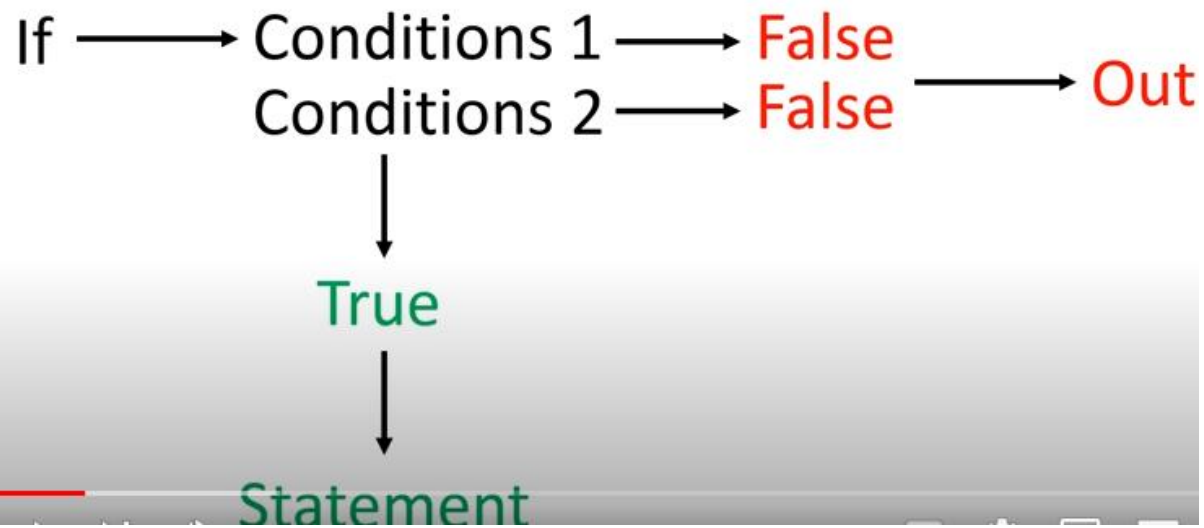
If Statement in JavaScript :

Comparison

```
var x = 5;
If(x > 10){
    document.write("X is Greater");
}
```
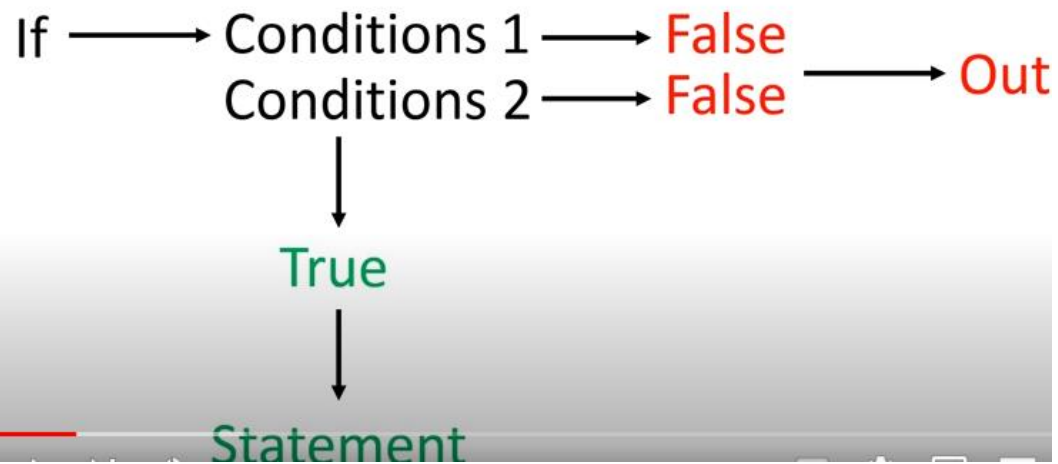
What are Logical Operators ? :

If ⟶ Conditions 1 ⟶ False

Conditions 2 ⟶ False ⟶ Out

↓

True

↓

Statement

What are Logical Operators ? :

If $\longrightarrow$ Conditions 1 $\longrightarrow$ False
$\qquad\qquad$ Conditions 2 $\longrightarrow$ False $\longrightarrow$ Out

$\qquad\qquad\qquad\downarrow$

$\qquad\qquad$ True

$\qquad\qquad\qquad\downarrow$

$\qquad\qquad$ Statement

Different Type of Logical Operators :

Operator	Name
&&	Logical AND
||	Logical OR
!	Logical NOT

If Statement with Logical AND :

If(Condition 1 && Condition 2){

}

Run only when both conditions must be TRUE

```
var age = 20;

if(age >= 18 && age <= 21){
    console.log("Yes you are eligible"
}
```
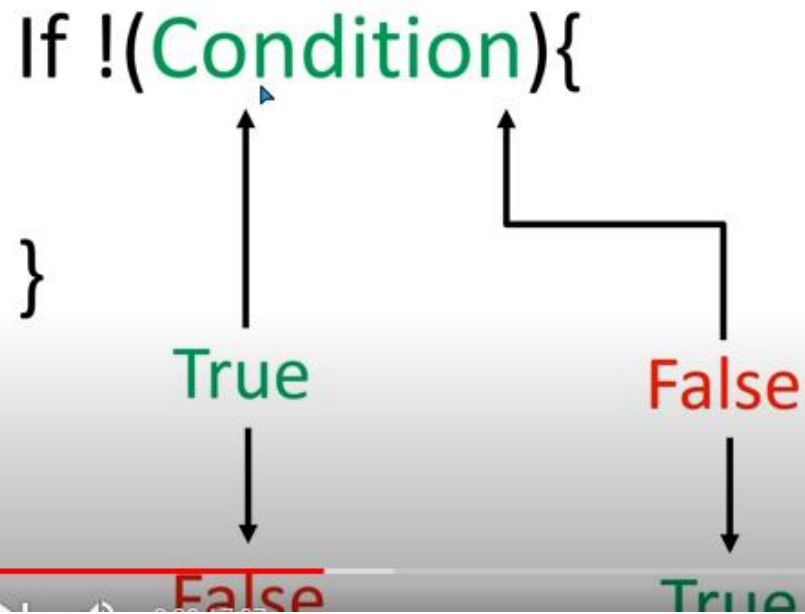
If Statement with Logical OR :

If(Condition 1 || Condition 2){

}

Run only when either one condition must be TRU

```
<script>
  var a = 10;
  var b = 15;

  if(a >= 10 || b <= 20){
    console.log("Yes you are eligible"
  }
</script>
```

If Statement with Logical NOT :

▶▷▶

If !(Condition){

```
}
```

True   False

↑   ↑

False   True

```html
<script>
  var a = 30;
  var b = 15;

  if (!a >= 12){
    console.log("Yes you are eligible"
  }
</script>
```

JavaScript
Switch Statement

Switch Statement in JavaScript :

► ▷ ►

```
switch (expression) {
    case condition 1: statement(s)
    break;

    case condition 2: statement(s)
    break;

    case condition 3: statement(s)
    break;

    default: statement(s)
```

```javascript
let a= parseInt( prompt("Please Enter Floor number"));


switch(a)
{
    case 1 : alert("Welcome to floor number 1");
    break;

    case 2 : alert("Welcome to floor number 2");
    break;

    case 3 : alert("Welcome to floor number 3");
    break;

    case 4 : alert("Welcome to floor number 4");
    break;

    default: alert("Please  Enter valid floor number")


}
```