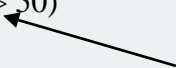


If (Condition)

if, tests whether a certain condition has been reached, such as an input being above a certain number.

```
if (someVariable > 50)
{
    // do something here
}
```

Comparison
Operator



Comparison Operators:

```
x == y (x is equal to y)
x != y (x is not equal to y)
x < y (x is less than y)
x > y (x is greater than y)
x <= y (x is less than or equal to y)
x >= y (x is greater than or equal to y)
```

Examples:

```
if (x > 120) digitalWrite(LEDpin, HIGH);
```

```
if (x > 120){  
  digitalWrite(LEDpin1, HIGH);  
  digitalWrite(LEDpin2, HIGH);  
}
```

```
if (x == 1 || x == 3)  
  digitalWrite(LEDpin, HIGH);
```

Common Boolean Operators:

|| (logical or) True if either operand is true

```
if (x > 0 || y > 0) {  
  // Your Code}
```

&& (logical and) true only if both inputs are high

```
// read two switches  
if (digitalRead(2) == HIGH && digitalRead(3) == HIGH)  
{  
  // Your Code  
}
```