**If (Condition)**

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

if (someVariable > 50)

Comparison Operator

{

*// do something here*

}

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*

}