JavaScript

Operators

```
// Arithmetic operators
/*
+   addition          x+y
-   subtraction       x-y
*   multiplication  x*y
/   division          x/y
%   modulous          x%y
++  increment         ++x
--  decerement          --x


Assignment operator
=    assign              x=5
+=   add and assign      x+=3
-=   subtract and assign  x-=3
*=   multiply & assign    x*=3
/=   divide & assign      x/=3
%=   modulus & assign     x%=3


Comprasion Operator
==   Equal to            x==y
=== checks var tape with no
!=   Not equal           x!=y
>    greater than        x>y
<    less than           x=  greater than equal  x>=y
<=  less than qual       x<=y


Logical Operator
&& and   if both T T =T IF T F =F  x < 5 && x <10
|| or    if one True an is True    x <5  || x < 4
```

```
  !   not   reverse result t->f f->t  !(x<5 && x<10)



    x +  y = z
    [x & y are operands] [+ = are operators] [z] --> result
```

Examples

```
1)
var a =10;
a*=6;
// a=a-6
console.log(" :assign +=",a);

output 60

2)
var p = 10;
var q = 20;

var result = !(p<5 && q<10);
console.log(result);
outputt true

3) == and ===

== is called the loose equality operator.It accept type corecion means one is number other is string
var num1=10;
var num2="10";

console.log(a==b);
output true

=== is the strict equality operator.It does not accept corecion
```

```javascript
var num1=10;
var num2="10";

console.log(a===b);
output false

console.log(5 < 10);    // true less than
console.log(7 > 20);    // false greater than
console.log(3 <= 3);    // true less tha  equal
console.log(4 >= 5);    // false greater tha equal

AND   T T->T, T F->F
console.log(true && true);     // true
console.log(true && false);    // false

OR T F->T ,T T->T , F F->F
console.log(true || false);      // true
console.log(false || false);     // false

NOT (!) Reverse the result

console.log(!true);      // false
console.log(!false);     // true

Conditional statement
if else if else

example:
let age = 18;

if (age < 13) {
  console.log("You're a child.");
} else if (age < 20) {
  console.log("You're a teenager.");
} else {
```

```javascript
    console.log("You're an adult.");
}
```

output You're a teenager.

Dialog Boxes in Javascript

```javascript
3types of dialog boxes
// 1 alert ok button
// console.log(alert("hello how r u"));

// 2 confirm ok and cancel
// console.log(confirm("r u sure u want to delete"));

// console.log(confirm('are u want to exit?'));

// 3 prompt it takes input from users
// console.log(prompt('enter ur no'));

<script>
    // input user for age
    let age = prompt("Please enter your age:");

    // Convert the input to a number, as prompt returns a string
    age = parseInt(age);

    if (age < 18) {
        alert("You are not eligible to vote.");
    } else if (age > 50) {
        alert("Age limit exceeded.");
    } else {
        alert("You are eligible to vote.");
    }
```

```
</script>
```