

## 11. Comparison operators:-

It is used to compare two variables.

ex:-  $=, !=, ==, !=, >, <$

Syntax:-  
Var a = 5;  
Var b = 8;

If (a > b){  
alert("false");

## 12. If else statement and else if :-

It will run both the true and false conditions.

Syntax:- Var a = 10;

Var b = 50;

If (a == 50){

    alert("It not");

else {

    alert("Yes");

### 13. Testing Condition Statement:-

Test  
the different condition statement.

### 14. Nested ifs:- when we have if statement inside it.

Syntax:-

```
var a = 78;  
var b = 88;
```

if(a == b){

if(a > b){

else{ "It less";}

"gob" : [0]A

"top" : [1]A

"bird" : [5]A

{}

{}

{}

15. Arrays:- A variable which stores multiple values sharing same data type.

We use index to store data

Index starts from 0 - n.

Syntax:-

var Num = [1, 8, 5, 6, 7, 9]

datatype

Array name

values

Initialization → 2) var Num2 = [6]

of array.

size of Array

Syntax:-

```
let numbers = new Array(s);
let i;
for (i=0; i<s; i++) {
    let input = prompt("Enter number");
    numbers[i] = Number(input);
}
console.log("Full Array is: " + numbers);
```

## 16. Arrays:-

### Adding and removing elements:

We remove and add the element through index.

Adding      A[0] = 56;      A[0] = "dog"  
                  A[1] = 88;      A[1] = "cat"  
                  A[2] = 9;        A[2] = "bird"

Removing      A[0] = 0;

A[1] = 0;

⇒ Push :- Add element in Array at last position. it can change the original Array

A.push(1, 5, 8);

(count the position)

⇒ Pop :- Remove element in Array at last position. It give the new Array.

A.pop();

(count the position)

## 7. Array:-

Removing, inserting and extracting elements:-

shift:- It can remove the elements from first position of Array.

Syntax:- `Arr.shift();` (return newArray)

unshift:- It can Add element in the first position of Array.

Syntax:- `Arr.unshift(56, 78);` (return newArray)

Splice:- It is used to insert one or more element in Array in every position and remove also. <sup>number of element you should remove</sup>

Syntax:- `Arr.splice(2, 0, 'cat');`

[It give new Array]

`Arr.splice(1, 1);` <sup>also include index</sup> <sup>no. of removing element.</sup>

`Arr.splice(2, 2);`

`Arr.splice(2, 2);`

Slice :- It give the specific part of array does not it return new array. But it does not change original arrays.

Syntax:- let array = ['A', 'B', 'C', 'D']

let arr = array.slice(0, 3)

alert(arr);

Result

A, B, C

we receive upto  
element from zero 2 index  
index : He 3

is not include