A Difference between copy by value & copy by reference

Copy by value;

- + It takes place in case of primitive data types i.e. Storing, Number 2 Boolean
- Primitive data types can hold only I value at a time
- Here value is copied to new variable.

eg:- Var x = 7; Var y = 'ABO'; Var a = x; Var b = y;

here value of xie. 7 is copied to a & 'ABD' to b

-> Variables are independent of each other.

Copy by Rejerence:

The takes place is case of non primitive data types in Array, Objects, function

- Compositive data types can hold collections of values & music complex entities.

-> Here inspik of value coldress of memory location is passed to new

eg: var user = { name; 'Parast' };

Var Nishant = user;

admin. name = 'Choudhary';

-> Both user & Mishant Istore address of memory location

* How to copy by value compresite data ty pe (array + osjects)

There are 3 ways to copy by value for composite data types:

- 1) Using spread (...) operator
- 2) Using object assign () method
- 3) Using JSON. Stringify () and JSON. parse () methods

It spread the elements of that particular array or object is uts values can be used to assign to some other variable.

egi det a = [10, 20, 30]

Let b = [...a]

a [0] = 99

Console. Log(3) // print [99,20,30] Console. Log(3) // print [10,20,30]

eg: In Objects.

Let obj = 1 foo: 'bar', x: 42); Let obj 2 = 1 foo o, 'baz', y: 13); Let cloned obj = 1...obj 1 9

2) Using Object assign ():

The object assign 1) method copies all enumerable our properties from

eg: var a = [1,2,3]

Var b = Object. assign ([],a)

Console. Log (a,b) // [1,2,3] [1,2,3]

b[2]=100

Console. Log (a,b) // [1,2,3] [1,2,100]

In Object:

Const target = fa:1, b:23; Const source = 16:4, c=55; Const ret = Object. assign (target, source); console. log (target); 11 Object fa:1, b: 4, 1:53 Console. log (ret); 11 Object fa:1, b: 4, 1:53 3) Using JSON. parse() & JSON. Stringify()

JSON. parse() takes JSON String & transform it into Javascript Object.

JSON. stringify() take Javascript Object & transform it into JSON

string.

eg: a = [1,2,3] var b = JSON. pause (JSON. stringify (a)) comole. Log (9,6) // [1,2,3] [1,2,3] b(2)=100 comole. Log (9,6) // [1,2,3] [1,2,100]