What is Destructuring in JavaScript *

Destructuring is act of unpacking elements in an array or object.

It not only allow you to unpack, but also manipulate and switch elements acc to your demand

Destructuring in Arrays

Eg

* const [var1, var2, ...var3] = ~~constName~~
→ Rest operator

           ["Deepa", "Jyoti", "Devesh", "Ram"]

  Console. log (var1); // 'Deepa'
  Console. log (var2); // 'Jyoti'
  Console. log (var3); ['Devesh', 'Ram']

Javascript allows you to use rest operator with a destructing array to assign the rest of regular array to variable

As you have noticed ["Devesh", "Ram"] remaining both get stored in var3

Eg

* cons [, , website] = ['google', 'yahoo', 'firefox'];

console. log (website) ; // 'firefox'

Here we use ',' to skip variables at destructing array's first and second index positions

How Default value work in an Array Destructing Assignment

Eg

const [FirstName = 'Deepa', lastName = 'chaurasia']
        = ["Deepa Chaurasia"] ;

console. log (FirsName)   // Deepa Chaurasia
console. log (lastName)   // chaurasia,

Here 'Deepa' and 'chaurasia' are default value of 'First Name' and 'last Name' Variables.

∴ In our attempt to extract first index value from right side of array, the computer defaulted to "chaurasia" — becoz.
Only zeroth index value exists in
        ["Deepa chaurasia"]

Object destructing In JavaScript

Object destructing is unique technique that allows you to neatly extract an object's value to new variables.

```
Const profile = {  ←
      First Name : 'Deepa';
  };
```

Destructing object

```
Const { First Name : FirstName } = profile;
```

This key references the profile object's First Name key

This value represents your new variable

The destructing object's key references its profile objects property name.

And destructing object's value represents your new variable

```
Eg → const profile {
        firstName : 'Deepa',
        lastName : 'Chaurasia',
     };

const { firstName, lastName } = profile;

    console.log (firstName);  // 'Deepa'
    console.log (lastName);   // 'Chaurasia'
```

How to Use object Destructing to Swap Value

```
let firstName = 'Deepa';
let lastName = 'Chaurasia';

({ firstName, lastName } = { firstName: lastName,
                             lastName : firstName });

console.log (firstName);  // 'Chaurasia'
console.log (lastName);   // 'Deepa'
```