*) **JS Destructuring**

*) Allows you to extract value from array/objects and assign them to variables using a concise syntax.

*) Convienent way — ? Extract Specific Data from Complex Data Structures
  (*) Simplify your code.

*) Powerful feature

*) Widely used in modern JS frameworks/libraries ——> to —?extract

React   Vue-JS   Props   State Variables

*) Eg 1) <u>Destructuring Arrays</u>

```
<script>
    Const myArray = [1, 2, 3];
    // Destructuring
    Const [a, b, c] = myArray;

    console.log(a);  //1
    console.log(b);  //2
    console.log(c);  //3
</script>
```

Console
O/p
1
2
3

(*) Eg 2) <u>Destructuring Objects</u>

```
<script>
    Const myObj = {
        name: "Codebustter",
        age: 24
    };
    // Destructuring
    Const {name, age} = myObj;

    console.log(name);  //Codebustter
    console.log(age);   //24
</script>
```

Console o/p

Codebustter
27

Eg 3) Nested objects

```
<script>
    const myObj = {
            name : "Codebustler",
            age : 27,
            address : {
                city : "Gulbarga",
                state : "Goa"
            }
    };

    // Destructuring

    const {name, age, address : {city, state}} = myObj;

    console.log(name);

    console.log(age);

    console.log(city);

    console.log(state);
</script>
```

O/p

Codebustler

27

Gulbarga

Goa

Eg 4) Default values

```
<script>
    const myArray = [1, 2];

    // Destructuring

    const [a, b, c = 6] = myArray;

    console.log(a);
    console.log(b);
    console.log(c);
</script>
```

```
<script>
    const myObj = {
            name : "Codebustler"
    };

    // Destructuring

    const {name, age = 27}
                = myObj;

    console.log(name);
    console.log(age);
</script>
```

Eg 5) A Renaming Name of Object

```
<script>
    Const myArray = [1, 2, 3];
    // Destructuring
    Const [a, b, c];

    Const myobj = {
        , name : "Codebustler"
    };
    Const {name : myName, age = 27} = myobj;
    Console. log (myName);
    Console.log (age);
</script>
```

a) In JS 2 you can rename properties ——→ while →Destructuring ← object

You cannot rename elements ——→ while ——→ Destructuring of arrays

[Because arrays do not have named properties].

c) For objects ——→ Use : ——→ rename variables during destructuring.