**Object Destructuring 1:**

1/ let facts = {numPlanets: 8, yearNeptuneDiscovered: 1846};

let {numPlanets, yearNeptuneDiscovered} = facts;

console.log(numPlanets); // ? 8

console.log(yearNeptuneDiscovered); // ? 1846

**Object Destructuring 2:**

2/ let planetFacts = {

numPlanets: 8,

yearNeptuneDiscovered: 1846,

yearMarsDiscovered: 1659

};

let {numPlanets, ...discoveryYears} = planetFacts;

console.log(discoveryYears); // 1846

**Object Destructuring 3:**

**3/**function getUserData({firstName, favoriteColor="green"}){

return `Your name is ${firstName} and you like ${favoriteColor}`;

}

getUserData({firstName: "Alejandro", favoriteColor: "purple"}) // ? Your name is Alejandro and you like purple ;

getUserData({firstName: "Melissa"}) // ? Your name is Melissa and you like purple.

getUserData({}) // ?

**Array Destructuring 1:**

let [first, second, third] = ["Maya", "Marisa", "Chi"];

console.log(first); // ? Maya

console.log(second); // ? Marisa

console.log(third); // ? Chi

**Array Destructuring 2:**

let [raindrops, whiskers, ...aFewOfMyFavoriteThings] = [

"Raindrops on roses",

"whiskers on kittens",

"Bright copper kettles",

"warm woolen mittens",

"Brown paper packages tied up with strings"

]

console.log(raindrops); // ? Raindrops on roses"

console.log(whiskers); // ? "whiskers on kittens"

console.log(aFewOfMyFavoriteThings); // ? "Bright copper kettles", "warm woolen mittens", "Brown paper packages tied up with strings"

**Array Destructuring 3**

let numbers = [10, 20, 30];

[numbers[1], numbers[2]] = [numbers[2], numbers[1]]

console.log(numbers) // ? [ 10,30,20]

**ES2015 Refactoring**

* **ES5 Assigning Variables to Object Properties:**

const obj = {

numbers: {

a: 1,

b: 2

}

};

const { a, b } = obj.numbers;

* **ES2015 Object Destructuring**

var arr = [1, 2];

[arr[0],arr[1]] = [arr [1],arr [0]];

* **ES2015 One-Line Array Swap with Destructuring**

const raceResults = (arr) => {

const [first, second, third, ...rest] = arr;

return { first, second, third, rest };

};

**race Results ()**

const raceResults = (arr) => {

const [first, second, third, ...rest] = arr;

return { first, second, third, rest };

};