**Destructuring Exercise**

1. What does the following code return/print?

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

**let {numPlanets, yearNeptuneDiscovered} = facts;**

console.log(numPlanets); // ?

console.log(yearNeptuneDiscovered); // ?

1. `console.log(numPlanets)` will print `**8**`.  
   `console.log(yearNeptuneDiscovered)` will print **1846**.
2. What does the following code return/print?

**let planetFacts = {**

**numPlanets: 8,**

**yearNeptuneDiscovered: 1846,**

**yearMarsDiscovered: 1659**

**};**

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

console.log(discoveryYears); // ?

1. `console.log(discoveryYears)` will return the key-value pairs:

**{yearNeptuneDiscovered: 1846, yearMarsDiscovered: 1659}**

1. What does the following code return/print?

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

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

}

getUserData({firstName: "Alejandro", favoriteColor: "purple"}) // ?

getUserData({firstName: "Melissa"}) // ?

getUserData({}) // ?

1. What does the following code return/print?

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

console.log(first); // ?

console.log(second); // ?

console.log(third); // ?

1. console.log(first); will print "**Maya**"

console.log(second); will print "**Marisa**"

console.log(third); will print "**Chi**"

1. What does the following code return/print?

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); // ?

console.log(whiskers); // ?

console.log(aFewOfMyFavoriteThings); // ?

1. console.log(raindrops); will return "Raindrops on roses"

console.log(whiskers); will return "whiskers on kittens"

console.log(aFewOfMyFavoriteThings); will return the array:

["Bright copper kettles", "warm woolen mittens", "Brown paper packages tied up with strings"]

1. What does the following code return/print?

let numbers = [10, 20, 30];

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

console.log(numbers) // ?

1. Console.log(numbers) will return **[10, 30, 20]**