# Destructuring Exercise

## **Object Destructuring 1**

What does the following code return/print?

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

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

console.log(numPlanets); ***//* 8**

console.log(yearNeptuneDiscovered); ***//* 1846**

## **Object Destructuring 2**

What does the following code return/print?

**let** planetFacts = {

numPlanets: 8,

yearNeptuneDiscovered: 1846,

yearMarsDiscovered: 1659

};

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

console.log(discoveryYears);

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

**Object Destructuring 3**

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"})

***//* Your name is Alejandro and you like purple**

getUserData({firstName: "Melissa"}) ***//* Your name is Melissa and you like green**

getUserData({}) ***//* Your name is undefined and you like green**

**Array Destructuring 1**

What does the following code return/print?

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

console.log(first); ***//* Maya**

console.log(second); ***//* Marisa**

console.log(third); ***//* Chi**

## **Array Destructuring 2**

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); *//* **“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**

What does the following code return/print?

**let** numbers = [10, 20, 30];

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

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