**Assignment 1: Array Operations**

Objective: Practice adding, removing, and updating values in arrays.

// 1. Make the "fruits" array empty.

allow fruits to equal [];

// 2. Include the fruits "apple," "banana," and "orange" in the "fruits" array.

fruits.push("banana", "orange", "apple");

// 3. Use fruits.shift() to take the first fruit out of the array.

// 4. Finish the array by appending "grape".

fruits.push("grape");

// 5. Change "pear" to the second fruit in the array.

fruits[1] is equivalent to "pear";

// 6. After completing the aforementioned procedures, print the finished "fruits" array.

console.log(fruits);

**Assignment 2: Object Operations**

Objective: Practice adding, removing, and updating values in objects.

// 1. Create an empty object called "person".

let person = {};

// 2. Add the following properties to the "person" object:

// - name: "John"

// - age: 30

// - city: "New York"

person.name = "John";

person.age = 30;

person.city = "New York";

// 3. Remove the "age" property from the "person" object.

delete person.age;

// 4. Add a new property called "job" with the value "Engineer" to the "person" object.

person.job = "Engineer";

// 5. Update the "city" property of the "person" object to "San Francisco".

person.city = "San Francisco";

// 6. Print the final "person" object after performing the above operations.

console.log(person);

**Assignment 3: Array of Objects Operations**

Objective: Practice adding, removing, and updating values in an array of objects.

// 1. Create an empty array called "cars".

let cars = [];

// 2. Add three car objects to the "cars" array.

cars.push(

{ make: "Toyota", model: "Camry", year: 2018 },

{ make: "Toyota", model: "Camry", year: 2018 },

{ make: "Toyota", model: "Camry", year: 2018 }

);

// 3. Remove the first car object from the "cars" array.

cars.shift();

// 4. Add a new car object to the "cars" array.

cars.push({ make: "Honda", model: "Civic", year: 2020 });

// 5. Update the "model" property of the second car object in the array to "Accord".

if (cars.length >= 2) {

cars[1].model = "Accord";

}

// 6. Print the final "cars" array after performing the above operations.

console.log(cars);