Assignment for Day 1

index.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Assignment 1</title>

    <style>

        ul{

            list-style-type: '- ';

        }

    </style>

</head>

<body>

    <div class="container">

        <h1>Assignment 1</h1>

        <div class="array">

            <h2>Task 1 - Array Operations</h2>

            <p>Objective: Practice adding, removing, and updating values in arrays.</p>

            <ol>

                <li>Create an empty array called "fruits".</li>

                <li>Add the following fruits to the "fruits" array: "apple", "banana", "orange".</li>

                <li>Remove the first fruit from the array.</li>

                <li>Add "grape" to the end of the array.</li>

                <li>Update the second fruit in the array to "pear".</li>

                <li>Print the final "fruits" array after performing the above operations.</li>

            </ol>

        </div>

        <div class="object">

            <h2>Task 2 - Object Operations</h2>

            <p>Objective: Practice adding, removing, and updating values in objects.</p>

            <ol>

                <li>Create an empty object called "person".</li>

                <li>

                    Add the following properties to the "person" object:

                    <ul>

                        <li>name: "John"</li>

                        <li>age: 30</li>

                        <li>city: "New York"</li>

                    </ul>

                </li>

                <li>Remove the "age" property from the "person" object.</li>

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

                <li>Update the "city" property of the "person" object to "San Francisco".</li>

                <li>Print the final "person" object after performing the above operations.</li>

            </ol>

        </div>

        <div class="arrayOfObjects">

            <h2>Task 3 - Arrays of Objects Operations</h2>

            <p>Objective: Practice adding, removing, and updating values in an array of objects.</p>

            <ol>

                <li>Create an empty array called "cars".</li>

                <li>

                    Add three car objects to the "cars" array. Each car object should have the following properties:

                    <ul>

                        <li>make: "Toyota"</li>

                        <li>model: "Camry"</li>

                        <li>year: 2018</li>

                    </ul>

                </li>

                <li>Remove the first car object from the "cars" array.</li>

                <li>

                    Add a new car object to the "cars" array with the following properties:

                    <ul>

                        <li>make: "Honda"</li>

                        <li>model: "Civic"</li>

                        <li>year: 2020</li>

                    </ul>

                </li>

                <li>Update the "model" property of the second car object in the array to "Accord".</li>

                <li>Print the final "cars" array after performing the above operations.</li>

            </ol>

        </div>

    </div>

    <!-- including JavaScript file -->

    <script src="app.js"></script>

</body>

</html>

app.js

// Array Operations

// creating an empty array "fruits"

let fruits = []

// adding the fruits to array : "apple","banana","orange"

fruits.push("apple")

fruits.push("banana")

fruits.push("orange")

console.log(fruits)

// removing first fruit from array

fruits.splice(0,1);

console.log(fruits)

// adding "grape" in the end

fruits.push("grape")

console.log(fruits)

// updating second value as "pear"

fruits[1] = "pear"

console.log(fruits)

// Object Operations

// creating an empty object

let person = {}

// adding properties to object : name, age and city

person.name = "John"

person.age = 30

person.city = "New York"

console.log(person)

// removing age property

delete person.age

console.log(person)

// adding new property "job" to person object with value "Engineer"

person.job = "Engineer"

console.log(person)

// updating city of person object to "San Francisco"

person.city = "San Francisco"

console.log(person)

// Array of Objects Operations

// creating an empty array "cars"

let cars = []

// adding three car objects to array with values : make: "Toyota", model: "Camry", year: 2020

let car = {

    make: "Toyota",

    model: "Camry",

    year: 2020

}

cars.push(car)

cars.push(car)

cars.push(car)

console.log(cars)

// removing first car object from array

cars.splice(0,1)

console.log(cars)

// add new car object to the "cars" array with properties - make: "Honda", model: "Civic" , year: 2020

let newCar = {

    make: "Honda",

    model: "Civic",

    year: 2020

}

cars.push(newCar)

console.log(cars)

// updating the model property of second car object to "Accord"

cars[1].model="Accord"

console.log(cars)

Output Screenshots:

Array Operations:

A screenshot of a computer

Description automatically generated

Object Operations:

A screenshot of a computer

Description automatically generated

Array of Objects Operations:

A screenshot of a computer

Description automatically generated