**Java** **script**

Arrays

JavaScript arrays are a type of data structure used to **store multiple values** in a **single** **variable**. Here's a simple breakdown:

**Creating an Array**

* You can create an array using square brackets [].

let fruits = ["apple", "banana", "cherry"];

**Accessing Array Elements:**

console.log (fruits [**0**]); // Output: "apple"

console.log (fruits **[1]**); // Output: "banana"

**Modifying Array Elements**

Fruits [1] = "**blueberry**";

console.log (fruits); // Output: ["apple", "**blueberry**", "cherry"]

**Array** **Length**

The length property **returns** the **number** of **elements** in the array.

console.log (fruits.**length**); // Output: 3

**Adding Elements**

You can add elements to an array using the **push()** method (**adds** to the **end**) or **unshift**()(**adds** to the **beginning**).

fruits.**push** ("**orange**");

console.log (fruits); // Output: ["apple", "blueberry", "cherry", "**orange**"]

fruits.**unshift** ("**kiwi**");

console.log(fruits); // Output: ["**kiwi**", "apple", "blueberry", "cherry", "orange"]

**Removing Elements**

You can remove elements using **pop()** (**removes** from the **end**) or **shift()** (**removes** from the **beginning**).

fruits.**pop ();**

console.log (fruits); // Output: ["kiwi", "apple", "blueberry", "cherry"]

fruits.**shift** ();

console.log (fruits); // Output: ["apple", "blueberry", "cherry"]

### ****Common Array Methods****

* **map()**: **Creates** a **new** **array** by **applying** a **function** to **each** **element**.
* **filter()**: Creates a new array with elements that pass a test.
* **reduce()**: **Reduces** the **array** to a **single** **value** by **applying** a function.

**Objects**

### ****Common Object Methods****

* **Object.keys ()**: **Returns** an **array** of a **given** **object's** property **names**.
* **Object.values()**: **Returns** an **array** of a given object's property **values**.
* **Object.entries()**: **Returns** an **array** of a given object's **key-value pairs**.

let car = {

brand: "Honda",

model: "Civic",

year: 2020

};

console.log(Object.**keys**(car)); // Output: ["brand", "model", "year"]

console.log(Object.**values**(car)); // Output: ["Honda", "Civic", 2020]

console.log(Object.**entries**(car)); // Output: [["brand", "Honda"], ["model", "Civic"], ["year", 2020]]

Objects **store** **data** in **key**-**value** **pairs**.

You can **access**, **modify**, **add**, or **remove** properties easily.

Objects can **contain** **nested** **objects** and **method**

**Ask**

* + GitHub Profile (optional)
  + Portfolio Website (if available)

### ****Personal Information****

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**Professional Summary**

**Front-end Developer with 3 years of experience in building responsive and user-friendly websites. Proficient in HTML, CSS, JavaScript, and Angular.js, React.js with a strong understanding of modern web development practices. Passionate about creating visually appealing and efficient user interfaces.**

### . ****Technical Skills****

* **Programming Languages**: HTML, CSS, JavaScript, TypeScript (if applicable)
* **Frameworks and Libraries**: React.js, Redux, Bootstrap, jQuery (if applicable)
* **Tools and Platforms**: Git, Webpack, NPM/Yarn, VS Code
* **Others**: Responsive Design, Cross-Browser Compatibility, RESTful APIs, Agile/Scrum Methodologies