Question 1: What is an array in JavaScript? How do you declare and initialize an array?

* An **array** in JavaScript is a **special variable** that can hold **multiple values** in a single variable.  
  It’s used to store **a collection of items**, such as numbers, strings, objects, or even other arrays.

**✅ How to Declare and Initialize an Array**

**🔸 1. Using Square Brackets []**

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

**🔸 2. Using the Array Constructor**

let fruits = new Array("apple", "banana", "cherry");

Question 2: Explain the methods push(), pop(), shift(), and unshift() used in arrays.

**✅ 1. push()**

* **Adds** one or more elements to the **end** of an array.
* Returns the **new length** of the array.

**🔸 Syntax:**

array.push(element1, element2, ...)

**🔸 Example:**

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

*fruits.push("cherry");*

*console.log(fruits); // ["apple", "banana", "cherry"]*

**✅ 2. pop()**

* **Removes** the **last** element from an array.
* Returns the **removed** element.

**🔸 Syntax:**

array.pop()

**🔸 Example:**

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

*let removed = fruits.pop();*

*console.log(fruits); // ["apple", "banana"]*

*console.log(removed); // "cherry"*

**✅ 3. shift()**

* **Removes** the **first** element from an array.
* Returns the **removed** element.

**🔸 Syntax:**

array.shift()

**🔸 Example:**

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

*let removed = fruits.shift();*

*console.log(fruits); // ["banana", "cherry"]*

*console.log(removed); // "apple"*

**✅ 4. unshift()**

* **Adds** one or more elements to the **beginning** of an array.
* Returns the **new length** of the array.

**🔸 Syntax:**

array.unshift(element1, element2, ...)

**🔸 Example:**

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

*fruits.unshift("apple");*

*console.log(fruits); // ["apple", "banana", "cherry"]*