Theory Assignment Array In JS

Question 1: What is an array in JavaScript?

An **array** in JavaScript is a collection of elements stored in a single variable. It can hold values of any type, like numbers, strings, or objects.

> **Declaration and Initialization:**

1. **Using Array Literal:**

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

2. **Using new Array():**

   let numbers = new Array(1, 2, 3);

3. **Empty Array:**

   let empty = [];

Question 2: Methods push(), pop(), shift(), and unshift()

1. **push()**: Adds elements to the **end** of the array.

   let fruits = ['apple'];

   fruits.push('banana'); // ['apple', 'banana']

2. **pop()**: Removes the **last** element and returns it.

   let fruits = ['apple', 'banana'];

   fruits.pop(); // ['apple']

3. **shift()**: Removes the **first** element and returns it.

   let fruits = ['apple', 'banana'];

   fruits.shift(); // ['banana']

4. **unshift()**: Adds elements to the **beginning** of the array.

   let fruits = ['banana'];

   fruits.unshift('apple'); // ['apple', 'banana']