

Module 8) JavaScript

Arrays

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

An array in JavaScript is a collection of items (elements) stored in a single variable. You can declare and initialize an array as shown:

javascript

```
// Declaring and initializing an array
```

```
let fruits = ["Apple", "Banana", "Orange"];
```

```
document.write("Array elements: " + fruits + "<br>");
```

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

1.push(): Adds an element to the end of the array.

Javascript

```
fruits.push("Grapes");
```

```
document.write("After push: " + fruits + "<br>");
```

2.pop(): Removes the last element from the array.

Javascript

```
fruits.pop();
```

```
document.write("After pop: " + fruits + "<br>");
```

3.shift(): Removes the first element from the array.

Javascript

```
fruits.shift();
```

```
document.write("After shift: " + fruits + "<br>");
```

4.unshift(): Adds an element to the beginning of the array.

Javascript

```
fruits.unshift("Mango");
```

```
document.write("After unshift: " + fruits + "<br>");
```