Self-Assessment Quiz – Arrays

- 1. What is the correct syntax to create an empty array in JavaScript?
- array[]
- array()
- []
- ()

Explanation: '[]'. This is the shorthand syntax to create an empty array in JavaScript.

- 2. Which method is used to add elements to the end of an array in JavaScript?
- push()
- pop()
- concat()
- slice()

Explanation: The push() method allows you to add one or more elements to the end of an array.

- 3. How do you access the first element in an array?
- array[0]
- array[1]
- array[first]
- array.first

Explanation: In JavaScript, array indexes start from 0, so the first element can be accessed using array[0].

- 4. Which method is used to remove the last element from an array in JavaScript?
- pop()
- shift()
- splice()
- slice()

Explanation: The pop() method removes the last element from an array and returns that element.

5. What is the result of the following code snippet?

```
var array = [1, 2, 3];
console.log(array.length);
```

- 1
- 2
- 3
- 4

Explanation: The length property of an array returns the number of elements in the array, so in this case, it will be 3.

- 6. Which method is used to find the index of a specified element in an array?
- indexOf()
- includes()
- findIndex()
- search()

Explanation: The indexOf() method returns the first index at which a given element can be found in the array.

- 7. True or False: Arrays in JavaScript can store elements of different data types.
- True
- False

Explanation: Arrays in JavaScript can store elements of different data types, including numbers, strings, objects, and even other arrays.

- 8. True or False: The length of an array in JavaScript is fixed and cannot be changed once the array is created.
- True
- False

Explanation: The length of an array in JavaScript is not fixed and can be changed by adding or removing elements using various array methods like push(), pop(), splice(), etc.