

Practical-2

Create an array of numbers and perform the following operations:

=> Find the length of the array.

=> Access and display specific elements using indexing.

=> Use array methods like push(), pop(), shift(), unshift(), join(), delete(), concat(), flat(), splice() and slice() to modify the array.

Create an object representing a person with properties like name, age, and gender. Implement a function that displays the person's details.

Code:

```
let arr = [1, 2, 3, 4, 5];

console.log("Length of the array:", arr.length);

console.log("First element:", arr[0]);
console.log("Third element:", arr[2]);
console.log("Last element:", arr[arr.length - 1]);

arr.push(6);
console.log("After push(6):", arr);

let poppedElement = arr.pop();
console.log("After pop():", arr);
console.log("Popped element:", poppedElement);

let shiftedElement = arr.shift();
console.log("After shift():", arr);
console.log("Shifted element:", shiftedElement);

arr.unshift(0);
console.log("After unshift(0):", arr);

let joinedString = arr.join("-");
console.log("Joined string:", joinedString);

delete arr[2];
console.log("After delete arr[2]:", arr);

let moreArr = [7, 8, 9];
let combinedArray = arr.concat(moreArr);
console.log("After concat([7, 8, 9]):", combinedArray);

let nestedArr = [1, [2, 3], [4, [5, 6]]];
let flattenedArray = nestedArr.flat(2);
console.log("Flattened array:", flattenedArray);
```

```

arr.splice(2, 1, 10, 11);
console.log("After splice(2, 1, 10, 11):", arr);

let slicedArray = arr.slice(1, 3);
console.log("Sliced array (1, 3):", slicedArray);

let person = {
  name: "Meet",
  age: 19,
  gender: "Male"
};

function per_info(person) {
  console.log("Person info:");
  console.log("Name:", person.name);
  console.log("Age:", person.age);
  console.log("Gender:", person.gender);
}

per_info(person);

```

output:

```

PS D:\AWT> node meetinfo.js
Length of the array: 5
First element: 1
Third element: 3
Last element: 5
After push(6): [ 1, 2, 3, 4, 5, 6 ]
After pop(): [ 1, 2, 3, 4, 5 ]
Popped element: 6
After shift(): [ 2, 3, 4, 5 ]
Shifted element: 1
After unshift(0): [ 0, 2, 3, 4, 5 ]
Joined string: 0-2-3-4-5
After delete arr[2]: [ 0, 2, <1 empty item>, 4, 5 ]
After concat([7, 8, 9]): [ 0, 2, <1 empty item>, 4, 5, 7, 8, 9 ]
Flattened array: [ 1, 2, 3, 4, 5, 6 ]
After splice(2, 1, 10, 11): [ 0, 2, 10, 11, 4, 5 ]
Sliced array (1, 3): [ 2, 10 ]

```

Person info:

Name: Meet

Age: 19

Gender: Male

PS D:\AWT> █