

# ASSIGNMENT-5

## 5. What is map() method in Array? How to use map() method?

- The map() method in Array creates a new array with the results of calling a provided function on every element in the calling array.

The syntax for the map() method is:

- `array.map(callbackFn, thisArg)`

- **array:**

*The array to iterate over.*

- **callbackFn:**

*The function to call on each element in the array.*

- **thisArg:**

*An optional value to use as this when calling the callbackFn function.*

*The callbackFn function is called for each element in the array, and the results are placed in a new array. The callbackFn function receives three arguments:*

- **current Value:** *The current element being processed.*
- **index:** *The index of the current element.*
- **array:** *The array that the map() method was called on.*
- *The callbackFn function can return any value, which will be placed in the new array at the corresponding index.*

*Here is an **example** of using the map() method to double the value of each element in an array:*

- `const numbers = [1, 2, 3, 4];`
- `const doubledNumbers = numbers.map(number => number * 2);`
- `console.log(doubledNumbers); // [2, 4, 6, 8]`