ASSIGNMENT-6

6. Find the details about following methods of Array:

find(), findIndex(), filter()

- o find() Method:
- Purpose: The find() method is used to find the first element in an array that satisfies a provided testing function.
- Syntax: array.find(callback(element[, index[, array]])[, thisArg])

Parameters:

- > <u>callback:</u> A function that defines the test condition. It is invoked with three arguments: element (the current array element), index (the current index), and array (the array on which find() was called).
- thisArg (optional): An object to which the this value within the callback is set.
- Return Value: The find() method returns the first element in the array that satisfies the provided testing function. If no element is found, it returns undefined.
- o findIndex() Method:
- Purpose: The findIndex() method is used to find the index of the first element in an array that satisfies a provided testing function.
- Syntax: array.findIndex(callback(element[, index[, array]])[, thisArg])

Parameters:

- <u>callback</u>: A function that defines the test condition. It is invoked with three arguments: element (the current array element), index (the current index), and array (the array on which findIndex() was called).
- thisArg (optional): An object to which the this value within the callback is set.
- Return Value: The findIndex() method returns the index of the first element in the array that satisfies the provided testing function. If no element is found, it returns -1.
- filter() Method:
- Purpose: The filter() method is used to create a new array with all elements that satisfy a provided testing function.
- Syntax: array.filter(callback(element[, index[, array]])[, thisArg])
- Parameters:
- <u>callback</u>: A function that defines the test condition. It is invoked with three arguments: element (the current array element), index (the current index), and array (the array on which filter() was called).
- thisArg (optional): An object to which this value within the callback is set.
- Return Value: The filter() method returns a new array containing all elements that satisfy the provided testing function. If no elements match the condition, it returns an empty array.