**ARRAY FUNCTIONS IN ES-6**

1. **MAP FUNCTION:**

The map() method of Array instances creates a new array populated with the results of calling a provided function on every element in the calling array. It calls the function for each element of the array and returns a new array.

For example – Here the map function is called by the num1 array and it returns a new array num2, such that every element of num1 added with 0.1 multiplied with that element gives corresponding element of num2.

const num2 = num1.map(e => e +e \*.1);

1. **FIND FUNCTION:**

The find() function is similar to the filter() function but differ in terms that instead of returning an array of elements that pass a test, The find() method returns the value of the first element that passes a test.

For example – Using the array of objects ‘persons’ and applying find function on it, we create a new object which is the first element returned by the find() function passing the test.

const persons = [{id:1, firstName:"Ajay", lastName:"Bisht", age:9, salary: 10000},

{id:2, firstName:"Rajiv", lastName:"Vishnoi", age:22, salary: 12000}, {id:3, firstName:"Bosco", lastName:"Caesar", age:25, salary: 20000},

{id:4, firstName:"Albert", lastName:"Wadlow", age:3, salary: 30000}];

const personObj = persons.find(p => p.firstName === 'Ajay');

1. **FILTER FUNCTION:**

The filter() method creates a new array filled with elements that pass a test provided by a function.

For example – ‘persons’ is an array of objects. Using this array, another array of objects ‘persons3’ is created such that each object i.e; element in persons3 has salary >= 20000

const persons = [{id:1, firstName:"Ajay", lastName:"Bisht", age:9, salary: 10000},

{id:2, firstName:"Rajiv", lastName:"Vishnoi", age:22, salary: 12000}, {id:3, firstName:"Bosco", lastName:"Caesar", age:25, salary: 20000},

{id:4, firstName:"Albert", lastName:"Wadlow", age:3, salary: 30000}];

const persons3 = persons.filter(obj => obj.salary >= 20000);