

LWC

# Useful JavaScript methods in LWC

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# **learn about ES6 features that are useful when working with Lightning web components**

A U T H O R   R I J W A N

## **forEach method in LWC**

```
import { LightningElement } from 'lwc';
export default class LWCUsefulMethod extends LightningElement {

    students = [
        {name: 'Rijwan', id: 1, favsubject:'Science', rank: 1, percentage: 98},
        {name: 'Himanshu', id: 2, favsubject:'Maths', rank: 3, percentage: 96},
        {name: 'Sachin', id: 3, favsubject:'Chemistry', rank: 2, percentage: 97},
        {name: 'Ankit', id: 4, favsubject:'Physics', rank: 4, percentage: 95},
        {name: 'Dev', id: 3, favsubject:'English', rank: 2, percentage: 93},
    ];

    handleForEach(){
        let studentsForEach = this.students.forEach(ele=>{
            console.log(ele.name);
            console.log(ele.favsubject);
        });
    }
}
```

## ***map() method in LWC***

```
import { LightningElement } from 'lwc';
export default class LWCUsefulMethod extends LightningElement {

    students = [
        {name: 'Rijwan', id: 1, favsubject:'Science', rank: 1, percentage: 98},
        {name: 'Himanshu', id: 2, favsubject:'Maths', rank: 3, percentage: 96},
        {name: 'Sachin', id: 3, favsubject:'Chemistry', rank: 2, percentage: 97},
        {name: 'Ankit', id: 4, favsubject:'Physics', rank: 4, percentage: 95},
        {name: 'Dev', id: 3, favsubject:'English', rank: 2, percentage: 93},
    ];

    handleMap(){
        const map1 = this.students.map(ele =>{
            if(ele.percentage > 95){
                return ele;
            }
        });
        console.log(map1);
    }

    handleMap2(){
        const array1 = [1, 4, 9, 16];

        // pass a function to map
        const map1 = array1.map(ele => ele * 2);
        console.log(map1);
        // expected output: Array [2, 8, 18, 32]
    }
}
```

## ***filter() method in LWC***

```
import { LightningElement } from 'lwc';
export default class LWCUsefulMethod extends LightningElement {

    students = [
        {name: 'Rijwan', id: 1, favsubject:'Science', rank: 1, percentage: 98},
        {name: 'Himanshu', id: 2, favsubject:'Maths', rank: 3, percentage: 96},
        {name: 'Sachin', id: 3, favsubject:'Chemistry', rank: 2, percentage: 97},
        {name: 'Ankit', id: 4, favsubject:'Physics', rank: 4, percentage: 95},
        {name: 'Dev', id: 3, favsubject:'English', rank: 2, percentage: 93},
    ];

    handleFilter(){
        // filter the array object which percentage greater than 95
        let filtrData = this.students.filter(ele => ele.percentage > 95);
        console.log(filtrData);
    }
}
```

## ***find() method in LWC***

```
import { LightningElement } from 'lwc';
export default class LWCUsefulMethod extends LightningElement {

    students = [
        {name: 'Rijwan', id: 1, favsubject:'Science', rank: 1, percentage: 98},
        {name: 'Himanshu', id: 2, favsubject:'Maths', rank: 3, percentage: 96},
        {name: 'Sachin', id: 3, favsubject:'Chemistry', rank: 2, percentage: 97},
        {name: 'Ankit', id: 4, favsubject:'Physics', rank: 4, percentage: 95},
        {name: 'Dev', id: 3, favsubject:'English', rank: 2, percentage: 93},
    ];

    handleFind(){
        let findRijwanRecord = this.students.find(ele => ele.name = 'Rijwan');
        console.log(findRijwanRecord);
    }
}
```

## ***slice() method in LWC***

```
import { LightningElement } from 'lwc';
export default class LWCUsefulMethod extends LightningElement {

    students = [
        {name: 'Rijwan', id: 1, favsubject:'Science', rank: 1, percentage: 98},
        {name: 'Himanshu', id: 2, favsubject:'Maths', rank: 3, percentage: 96},
        {name: 'Sachin', id: 3, favsubject:'Chemistry', rank: 2, percentage: 97},
        {name: 'Ankit', id: 4, favsubject:'Physics', rank: 4, percentage: 95},
        {name: 'Dev', id: 3, favsubject:'English', rank: 2, percentage: 93},
    ];

    handleSlice(){
        //To generate an array with first three elements
        let studentsSliceArray = this.students.slice(0, 3);
        console.log(studentsSliceArray);
    }
}
```

## ***reduce() method in LWC***

```
import { LightningElement } from 'lwc';
export default class LWCUsefulMethod extends LightningElement {

    students = [
        {name: 'Rijwan', id: 1, favsubject:'Science', rank: 1, percentage: 98},
        {name: 'Himanshu', id: 2, favsubject:'Maths', rank: 3, percentage: 96},
        {name: 'Sachin', id: 3, favsubject:'Chemistry', rank: 2, percentage: 97},
        {name: 'Ankit', id: 4, favsubject:'Physics', rank: 4, percentage: 95},
        {name: 'Dev', id: 3, favsubject:'English', rank: 2, percentage: 93},
    ];

    handleSort(){
        const array1 = [12, 23, 43, 74];
        const initialValue = 0;
        const sumWithInitial = array1.reduce(
            (previousValue, currentValue) => previousValue + currentValue,
            initialValue
        );

        console.log(sumWithInitial);
    }
}
```

## ***sort() method in LWC***

```
import { LightningElement } from 'lwc';
export default class LWCUsefulMethod extends LightningElement {

    students = [
        {name: 'Rijwan', id: 1, favsubject:'Science', rank: 1, percentage: 98},
        {name: 'Himanshu', id: 2, favsubject:'Maths', rank: 3, percentage: 96},
        {name: 'Sachin', id: 3, favsubject:'Chemistry', rank: 2, percentage: 97},
        {name: 'Ankit', id: 4, favsubject:'Physics', rank: 4, percentage: 95},
        {name: 'Dev', id: 3, favsubject:'English', rank: 2, percentage: 93},
    ];

    handleSort(){
        let sortByRank = students.sort((a, b) =>{
            return (a.rank > b.rank ? -1 : 1);
        });

        console.log(sortByRank);
    }
}
```



## **JSON.stringify() method in LWC**

```
import { LightningElement } from 'lwc';
export default class LWCUsefulMethod extends LightningElement {

    students = [
        {name: 'Rijwan', id: 1, favsubject:'Science', rank: 1, percentage: 98},
        {name: 'Himanshu', id: 2, favsubject:'Maths', rank: 3, percentage: 96},
        {name: 'Sachin', id: 3, favsubject:'Chemistry', rank: 2, percentage: 97},
        {name: 'Ankit', id: 4, favsubject:'Physics', rank: 4, percentage: 95},
        {name: 'Dev', id: 3, favsubject:'English', rank: 2, percentage: 93},
    ];

    handleJSONStringfy(){
        let stringObject = JSON.stringify(this.students);
        console.log(stringObject);
    }
}
```



## **JSON.parse() method in LWC**

```
import { LightningElement } from 'lwc';
export default class LWCUsefulMethod extends LightningElement {

    students = [
        {name: 'Rijwan', id: 1, favsubject:'Science', rank: 1, percentage: 98},
        {name: 'Himanshu', id: 2, favsubject:'Maths', rank: 3, percentage: 96},
        {name: 'Sachin', id: 3, favsubject:'Chemistry', rank: 2, percentage: 97},
        {name: 'Ankit', id: 4, favsubject:'Physics', rank: 4, percentage: 95},
        {name: 'Dev', id: 3, favsubject:'English', rank: 2, percentage: 93},
    ];

    handleJSONParse(){
        let stringObject = JSON.stringify(this.students);
        let array = JSON.parse(stringObject);
        console.log(array);
    }
}
```



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