



Subject: 2104CS512 – JavaScript Framework

Academic Year 2024-25 | Semester-5 Practical Solution

Faculty: Prof. Chirag K. Sakhrani

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	С	elements like color name in small letter (e.g. ['red', 'green', 'blue']) and convert each array element to Capitalized letter using map method. 6. WAP to perform CRUD operation on a static array using Javascript.





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Assignment 1: WAP to demonstrate some function of ES6.

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
   <script>
       let a = [1,3,6,5];
       console.log("Array : "+a);
        result = a.some((temp)=>{
            if(temp>5){
                return true;
        });
        console.log("result :"+result);
    </script>
</body>
</html>
```

```
Assignment 1: Output

Array: 1,3,6,5
result:true
```





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Assignment 2: WAP to create a numerical array containing number elements. You have to return a number greater than 50 using filter method.

```
<!DOCTYPE html>
< <!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <script>
       let numbers = [12, 25, 36, 48, 52, 61, 75, 88, 91, 42];
        console.log("Array : "+numbers);
        result = numbers.filter((temp)=>{
            if(temp>50){
                return true;
        });
        console.log("result :"+result);
   </script>
</body>
</html>
```

```
Assignment 2: Output

Array: 12,25,36,48,52,61,75,88,91,42
result:52,61,75,88,91
```





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Assignment 3: WAP to create student name array and print each elements using ES6 for each method.

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <script>
       let studentNames = ["krunal", "samir", "vishant", "kishan", "viraj",
"jash"];
       console.log("Array : "+studentNames);
       result = studentNames.forEach((temp,i)=>{
            console.log("value =",temp," : ","index =",i);
       });
   </script>
</body>
```

```
Assignment 3: Output

Array: krunal, samir, vishant, kishan, viraj, jash
value = krunal: index = 0
value = samir: index = 1
value = vishant: index = 2
value = kishan: index = 3
value = viraj: index = 4
value = jash: index = 5
```



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Assignment 4: WAP to create numerical array and remove duplicate elements from the array using reduce method.

```
<!DOCTYPE html>
<html lang="en">
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Document</title>
</head>
<body>
 <script>
   const nums = [1, 2, 3, 4, 2, 3, 5, 1, 6, 7, 6, 8, 9, 8, 10];
   const unique = removeDuplicates(nums);
   console.log("Array:", nums);
   console.log("result:", unique);
   function removeDuplicates(array) {
     return array.reduce((collector, currentValue) => {
       if (!collector.includes(currentValue)) {
          collector.push(currentValue);
       return collector;
     }, []);
 </script>
</body>
</html>
```

```
Assignment 4: Output

Array: 1,2,3,4,5,2,3,1,6,7

result: 1,2,3,4,5,6,7
```



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```
Assignment 5: WAP to create a new array containing number of elements like color name in small letter (e.g. ['red', 'green', 'blue']) and convert each array element to Capitalized letter using map method.
```

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<body>
   <script>
       let colors = ["red", "green", "blue"];
       console.log("Array : "+colors);
       result = colors.map((temp)=>{
            return temp.toUpperCase();
       });
       console.log("result :",result);
   </script>
</body>
</html>
```

```
Assignment 5: Output

Array: red, green, blue
result: ["RED", "GREEN", "BLUE"]
```

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```
Assignment 6: WAP to perform CRUD operation on a static array using Javascript.
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let students = [];
        // CREATE
        function createStudent(name, age) {
            students.push({ name, age });
        // READ
        function readStudents() {
            console.log(students);
        // UPDATE
        function updateStudent(name, newAge) {
            for (let i = 0; i < students.length; i++) {</pre>
                if (students[i].name == name) {
                    students[i].age = newAge;
                    return;
                }
        function deleteStudent(name) {
            students = students.filter(student => student.name != name);
        }
        createStudent("KD", 20);
        createStudent("PT", 19);
```





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```
createStudent("Darshan", 22);

readStudents();

updateStudent("KD", 23);
readStudents();

deleteStudent("Darshan");
readStudents();

</script>
</body>
</html>
```

```
Assignment 6: Output

[{"name": "KD","age": 20},{"name": "PT","age": 19},{"name": "Darshan","age": 22}]

[{"name": "KD","age": 23},{"name": "PT","age": 19},{"name": "Darshan","age": 22}]

[{"name": "KD","age": 23},{"name": "PT","age": 19}]
```