Subject: 2104CS512 – JavaScript Framework

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I.		**Revision of JavaScript and ES6**
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Assignment 1:WAP to demonstrate the use of object destructuring.

```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 obj1 = {
            name: "yash",
            age: 20,
            sem: 5,
        }
        let { name, sem, ...rem } = obj1
        console.log(rem)
    </script>
</body>
</html>
```

Assignment 1: Output

```
{
    "age": 20
}
```

Assignment 2: WAP to demonstrate the use of array destructuring.

```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 arr = [1, 2, 3, 4, 5]
        let [a, b, ...newArr] = arr

        console.log(a)
        console.log(b)
        console.log(newArr)
    </script>
</body>
</html>
```

Assignment 2: Output

```
1
2
[ 3, 4, 5 ]
```

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Assignment 3: WAP to demonstrate export module.
Assignment 4: WAP to demonstrate import module.

mathmodule.js

```
//mathModule.js
function add(a, b) {
    return a + b;
}
function subtract(a, b) {
    return a - b;
}
export { add, subtract };
```

main.js

```
// main.js

// Import the functions from mathModule
import { add, subtract } from './mathModule.js';
// Use the imported functions
const result1 = add(5, 3);
console.log(`5 + 3 = ${result1}`);
const result2 = subtract(5, 3);
console.log(`5 - 3 = ${result2}`);
```

html file

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Export Module Demo</title>
</head>
<body>
    <script type="module" src="main.js"></script>
</body>
</html>
```

Assignment 3 & 4: Output

```
5 + 3 = 8
5 - 3 = 2
```

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Assignment 5: WAP to demonstrate the spread operator.

```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>
    <div id="disp-area">
    </div>
    <script>
        let arr1 = ["Krunal", "Samir"];
        let arr2 = ["Darshan", "Harshil"];
        let faculties = [...arr1, ...arr2];
        faculties = [...faculties, "Bala sir"];
        console.log(faculties);
    </script>
</body>
</html>
```

Assignment 5: Output

```
[
    "Krunal",
    "Samir",
    "Darshan",
    "Harshil",
    "Bala sir"
]
```

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Assignment 6: WAP to combine two array using spread operator.(use numerical array)

```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 arr1 = [1, 2, 3, 4, 5];
        let arr2 = [6, 7, 8, 9, 10];

        let arr3 = [...arr1, ...arr2];
        console.log(arr3);
    </script>
</body>
</html>
```

Assignment 6: Output

```
[ 1, 2, 3, 4, 5, 6 ,7 ,8 ,9 ,10 ]
```