

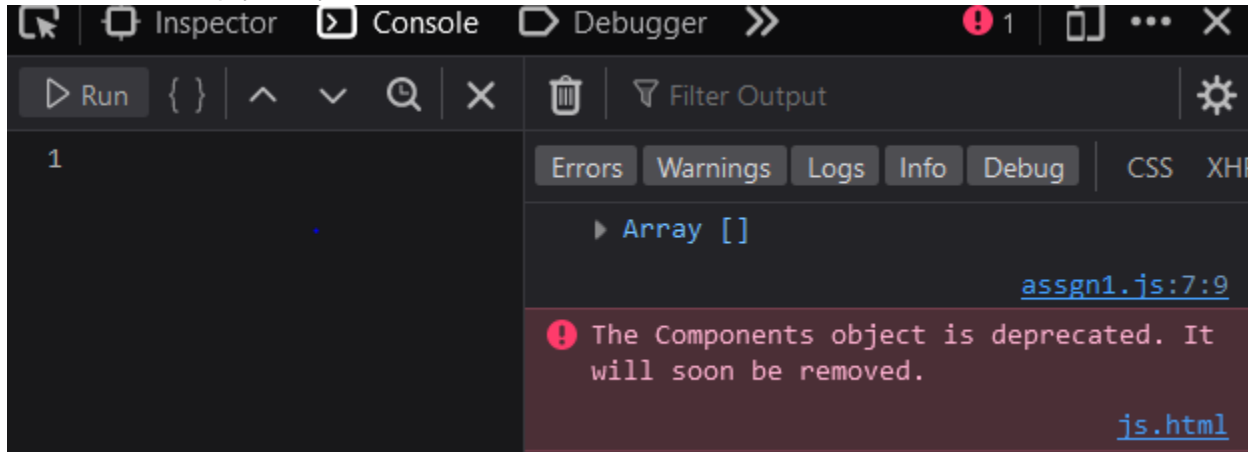
How to Javascript : Assignment 1

Submitted By:- Reshma RP

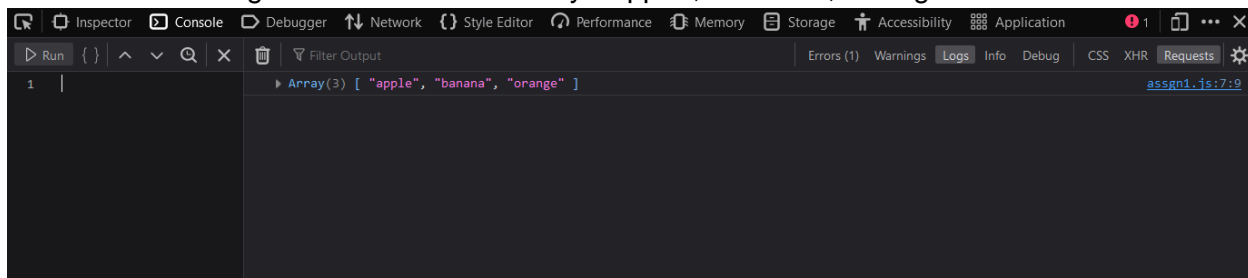
Assignment 1: Array Operations

Objective: Practice adding, removing, and updating values in arrays.

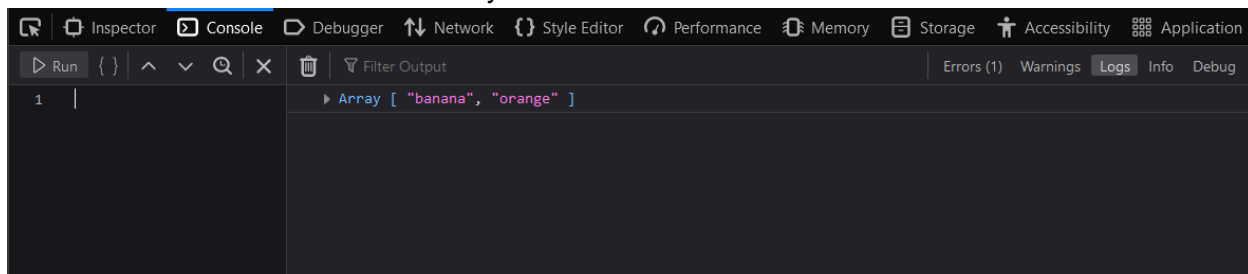
1. Create an empty array called "fruits".



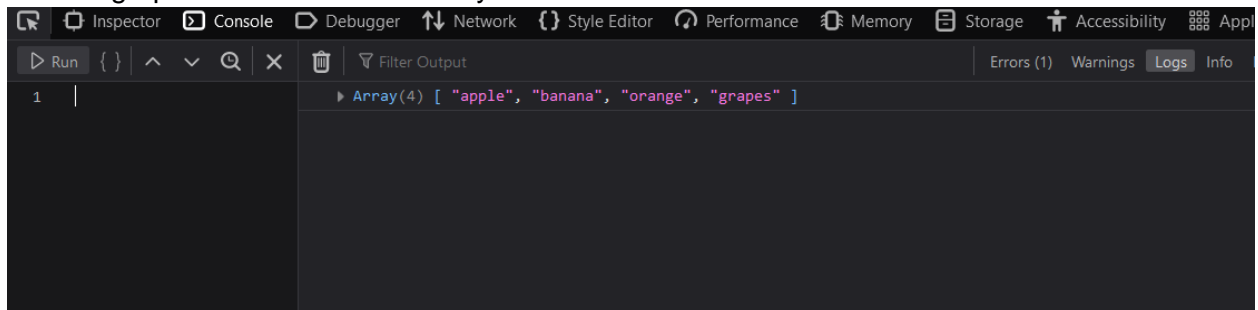
2. Add the following fruits to the "fruits" array: "apple", "banana", "orange".



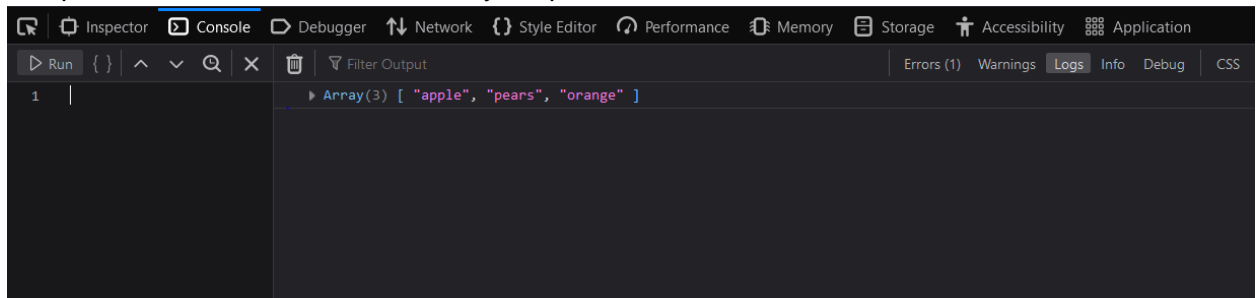
3. Remove the first fruit from the array.



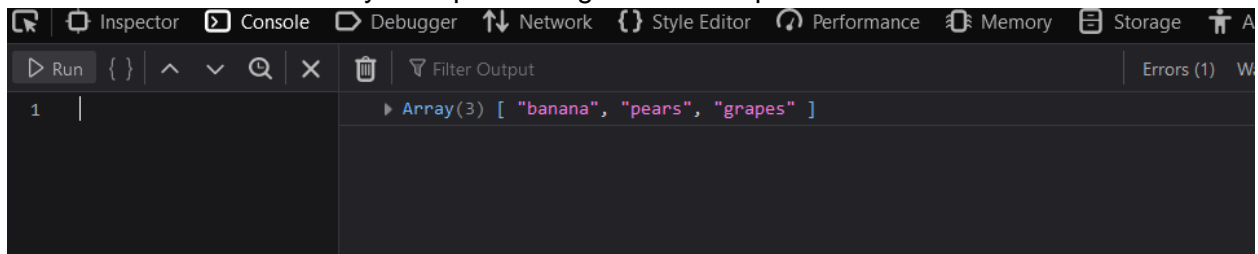
4. Add "grape" to the end of the array.



5. Update the second fruit in the array to "pear".



6. Print the final "fruits" array after performing the above operations.



```
js.html JS assgn1.js X JS assgn2.js
Bootcamp > JavaScript > JS assgn1.js > ...
1 //Assignment 1: Array Operations
2 //1. Create an empty array called "fruits".
3 //let fruits =[];
4 //console.log(fruits);
5 //2. Add the following fruits to the "fruits" array: "apple", "banana", "orange".
6 let fruits=['apple','banana','orange'];
7 //console.log(fruits);
8 //3. Remove the first fruit from the array.
9 fruits.splice(0,1)
10 //console.log(fruits);
11 //4. Add "grape" to the end of the array.
12 fruits.push('grapes');
13 //console.log(fruits);
14 //5. Update the second fruit in the array to "pear".
15 fruits.splice(1,1,'pears')
16 //console.log(fruits)
17 //6. Print the final "fruits" array after performing the above operations.
18 console.log(fruits)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\assgn1.js"
['banana', 'pears', 'grapes']

Assignment 2: Object Operations

Objective: Practice adding, removing, and updating values in objects.

1. Create an empty object called "person".
2. Add the following properties to the "person" object:
 - name: "John"
 - age: 30
 - city: "New York"

```
js.html JS assgn1.js JS assgn2.js X
Bootcamp > JavaScript > Day 1 > JS assgn2.js > ...
1 //Assignment 2: Object Operations
2 //Objective: Practice adding, removing, and updating values in objects.
3
4 //1. Create an empty object called "person".
5 //let person={};
6 //console.log(person);
7
8 //2. Add the following properties to the "person" object:
9 // - name: "John"
10 // - age: 30
11 // - city: "New York"
12 let person={name:"John", age:30, city:"New York"};
13 console.log(person);
14 //3. Remove the "age" property from the "person" object.
15
16 //4. Add a new property called "job" with the value "Engineer" to the "person" object.
17
18 //5. Update the "city" property of the "person" object to "San Francisco".
19
20 //6. Print the final "person" object after performing the above operations.
21
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
[Running] cd "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\" && start firefox js.html

[Done] exited with code=0 in 0.139 seconds

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn2.js"
{ name: 'John', age: 30, city: 'New York' }
```

3. Remove the "age" property from the "person" object.

```
js.html JS assgn1.js JS assgn2.js X
Bootcamp > JavaScript > Day 1 > JS assgn2.js > ...
1 //Assignment 2: Object Operations
2 //Objective: Practice adding, removing, and updating values in objects.
3
4 //1. Create an empty object called "person".
5 //let person={};
6 //console.log(person);
7
8 //2. Add the following properties to the "person" object:
9 // - name: "John"
10 // - age: 30
11 // - city: "New York"
12 let person={name:"John", age:30, city:"New York"};
13 //console.log(person);
14 //3. Remove the "age" property from the "person" object.
15 delete person.age;
16 console.log(person);
17 //4. Add a new property called "job" with the value "Engineer" to the "person" object.
18
19 //5. Update the "city" property of the "person" object to "San Francisco".
20
21 //6. Print the final "person" object after performing the above operations.
22

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
[Done] exited with code=0 in 0.139 seconds

[Running] cd "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\" && start firefox js.html

[Done] exited with code=0 in 1.274 seconds

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn2.js"
{ name: 'John', city: 'New York' }

[Done] exited with code=0 in 1.237 seconds
```

4. Add a new property called "job" with the value "Engineer" to the "person" object.

```
js.html JS assgn1.js JS assgn2.js X
Bootcamp > JavaScript > Day 1 > JS assgn2.js > ...
3
4 //1. Create an empty object called "person".
5 //let person={};
6 //console.log(person);
7
8 //2. Add the following properties to the "person" object:
9 // - name: "John"
10 // - age: 30
11 // - city: "New York"
12 let person={name:"John", age:30, city:"New York"};
13 //console.log(person);
14 //3. Remove the "age" property from the "person" object.
15 //delete person.age;
16 //console.log(person);
17 //4. Add a new property called "job" with the value "Engineer" to the "person" object.
18 person.job="Engineer";
19 console.log(person);
20 //5. Update the "city" property of the "person" object to "San Francisco".
21
22 //6. Print the final "person" object after performing the above operations.
23

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
at node:internal/main/run_main_module:23:47

Node.js v18.17.0

[Done] exited with code=1 in 0.154 seconds

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn2.js"
{ name: 'John', age: 30, city: 'New York', job: 'Engineer' }

[Done] exited with code=0 in 0.124 seconds
```

5. Update the "city" property of the "person" object to "San Francisco".

```
js.html JS assgn1.js JS assgn2.js X
Bootcamp > JavaScript > Day 1 > JS assgn2.js > ...
3
4 //1. Create an empty object called "person".
5 //let person={};
6 //console.log(person);
7
8 //2. Add the following properties to the "person" object:
9 // - name: "John"
10 // - age: 30
11 // - city: "New York"
12 let person={name:"John", age:30, city:"New York"};
13 //console.log(person);
14 //3. Remove the "age" property from the "person" object.
15 //delete person.age;
16 //console.log(person);
17 //4. Add a new property called "job" with the value "Engineer" to the "person" object.
18 person.job="Engineer";
19 //console.log(person);
20 //5. Update the "city" property of the "person" object to "San Francisco".
21 person.city="San Francisco";
22 console.log(person);
23 //6. Print the final "person" object after performing the above operations.
24
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn2.js"
{ name: 'John', age: 30, city: 'New York', job: 'Engineer' }

[Done] exited with code=0 in 0.124 seconds

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn2.js"
{ name: 'John', age: 30, city: 'San Francisco', job: 'Engineer' }

6. Print the final "person" object after performing the above operations.

The screenshot shows a code editor with a file named `JS assgn2.js` open. The code performs several operations on a JavaScript object: creating an empty object, adding properties (name, age, city), removing a property (age), adding a new property (job), updating a property (city), and finally logging the object. The output in the console shows the object at two different stages: first with age and job, then with age removed and city updated. A blue line is drawn across the bottom of the console output.

```
3
4 //1. Create an empty object called "person".
5 //let person={};
6 //console.log(person);
7
8 //2. Add the following properties to the "person" object:
9   // - name: "John"
10  // - age: 30
11  // - city: "New York"
12 let person={name:"John", age:30, city:"New York"};
13 //console.log(person);
14 //3. Remove the "age" property from the "person" object.
15 delete person.age;
16 //console.log(person);
17 //4. Add a new property called "job" with the value "Engineer" to the "person" object.
18 person.job="Engineer";
19 //console.log(person);
20 //5. Update the "city" property of the "person" object to "San Francisco".
21 person.city="San Francisco";
22 //console.log(person);
23 //6. Print the final "person" object after performing the above operations.
24 console.log(person);|
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn2.js"
{ name: 'John', age: 30, city: 'San Francisco', job: 'Engineer' }

[Done] exited with code=0 in 0.21 seconds

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn2.js"
{ name: 'John', city: 'San Francisco', job: 'Engineer' }

[Done] exited with code=0 in 0.151 seconds

Inspector Console Debugger Network Style Editor Performance Memory Storage Accessibility Application

Run { } ^ v Q X Filter Output Errors Warnings Logs Info Debug

1 | Object { name: "John", city: "San Francisco", job: "Engineer" }

The Components object is deprecated. It will soon be removed.

Assignment 3: Array of Objects Operations

Objective: Practice adding, removing, and updating values in an array of objects.

1. Create an empty array called "cars".


```
js.html JS assgn1.js JS assgn2.js JS assgn3.js X
Bootcamp > JavaScript > Day 1 > JS assgn3.js > ...
1 //Assignment 3: Array of Objects Operations
2 //1. Create an empty array called "cars".
3 let cars=[];
4 console.log(cars);|
5 //2. Add three car objects to the "cars" array. Each car object should have the followi
6     //- make: "Toyota"
7     //- model: "Camry"
8     //- year: 2018
9
10
11 //3. Remove the first car object from the "cars" array.
12
13 //4. Add a new car object to the "cars" array with the following properties:
14     // - make: "Honda"
15     //- model: "Civic"
16     //- year: 2020
17
18 //5. Update the "model" property of the second car object in the array to "Accord".
19
20 //6. Print the final "cars" array after performing the above operations.
21
22
23
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
[Done] exited with code=0 in 0.151 seconds

[Running] cd "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\" && start firefox js.html

[Done] exited with code=0 in 0.595 seconds

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn3.js"
[]

[Done] exited with code=0 in 0.69 seconds
```

2. Add three car objects to the "cars" array. Each car object should have the following properties:

- make: "Toyota"
- model: "Camry"
- year: 2018

```
js.html JS assgn1.js JS assgn2.js JS assgn3.js X
Bootcamp > JavaScript > Day 1 > JS assgn3.js > ...
1 //Assignment 3: Array of Objects Operations
2 //1. Create an empty array called "cars".
3 //let cars=[];
4 //console.log(cars);
5 //2. Add three car objects to the "cars" array. Each car object should have the fo
6     //- make: "Toyota"
7     //- model: "Camry"
8     //- year: 2018
9 let car1={make:"Toyota",model:"Camry",year:"2018"}
10 let car2={make:"Toyota",model:"Camry",year:"2018"}
11 let car3={make:"Toyota",model:"Camry",year:"2018"}
12 let cars=[car1,car2, car3];
13 console.log(cars);|
14
15
16 //3. Remove the first car object from the "cars" array.
17
18 //4. Add a new car object to the "cars" array with the following properties:
19     //- make: "Honda"
20     //- model: "Civic"
21     //- year: 2020
22
23 //5. Update the "model" property of the second car object in the array to "Accord"
24
25 //6. Print the final "cars" array after performing the above operations.
26

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
[Done] exited with code=0 in 0.69 seconds

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn3.js"
[
  { make: 'Toyota', model: 'Camry', year: '2018' },
  { make: 'Toyota', model: 'Camry', year: '2018' },
  { make: 'Toyota', model: 'Camry', year: '2018' }
]

[Done] exited with code=0 in 1.166 seconds
```

3. Remove the first car object from the "cars" array.

```
js.html JS assgn1.js JS assgn2.js JS assgn3.js X
Bootcamp > JavaScript > Day 1 > JS assgn3.js > ...
1 //Assignment 3: Array of Objects Operations
2 //1. Create an empty array called "cars".
3 //let cars=[];
4 //console.log(cars);
5 //2. Add three car objects to the "cars" array. Each car object should have the following properties:
6     //- make: "Toyota"
7     //- model: "Camry"
8     //- year: 2018
9 let car1={make:"Toyota",model:"Camry",year:"2018"}
10 let car2={make:"Toyota",model:"Camry",year:"2018"}
11 let car3={make:"Toyota",model:"Camry",year:"2018"}
12 let cars=[car1,car2, car3];
13 //console.log(cars);
14
15 //3. Remove the first car object from the "cars" array.
16 cars.splice(0,1);
17 console.log(cars);
18 //4. Add a new car object to the "cars" array with the following properties:
19     //- make: "Honda"
20     //- model: "Civic"
21     //- year: 2020
22
23 //5. Update the "model" property of the second car object in the array to "Accord".
24
25 //6. Print the final "cars" array after performing the above operations.
26

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[Done] exited with code=0 in 0.475 seconds

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn3.js"
[
  { make: 'Toyota', model: 'Camry', year: '2018' },
  { make: 'Toyota', model: 'Camry', year: '2018' }
]

[Done] exited with code=0 in 0.557 seconds
```

4. Add a new car object to the "cars" array with the following properties:

- make: "Honda"
- model: "Civic"
- year: 2020

```
js.html JS assgn1.js JS assgn2.js JS assgn3.js X
Bootcamp > JavaScript > Day 1 > JS assgn3.js > ...
1 //Assignment 3: Array of Objects Operations
2 //1. Create an empty array called "cars".
3 //let cars=[];
4 //console.log(cars);
5 //2. Add three car objects to the "cars" array. Each car object should have the following properties:
6     //- make: "Toyota"
7     //- model: "Camry"
8     //- year: 2018
9 let car1={make:"Toyota",model:"Camry",year:"2018"}
10 let car2={make:"Toyota",model:"Camry",year:"2018"}
11 let car3={make:"Toyota",model:"Camry",year:"2018"}
12 let cars=[car1,car2, car3];
13 //console.log(cars);
14
15 //3. Remove the first car object from the "cars" array.
16 //cars.splice(0,1);
17 //console.log(cars);
18 //4. Add a new car object to the "cars" array with the following properties:
19     //- make: "Honda"
20     //- model: "Civic"
21     //- year: 2020
22 let car={make: "Honda",model: "Civic",year:"2020"}
23 cars.push(car);
24 console.log(cars);
25 //5. Update the "model" property of the second car object in the array to "Accord".
26
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Code

```
[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn3.js"
[
  { make: 'Toyota', model: 'Camry', year: '2018' },
  { make: 'Toyota', model: 'Camry', year: '2018' },
  { make: 'Toyota', model: 'Camry', year: '2018' },
  { make: 'Honda', model: 'Civic', year: '2020' }
]

[Done] exited with code=0 in 0.592 seconds
```

5. Update the "model" property of the second car object in the array to "Accord".

```
js.html JS assgn1.js JS assgn2.js JS assgn3.js X
Bootcamp > JavaScript > Day 1 > JS assgn3.js > ...
4 //console.log(cars);
5 //2. Add three car objects to the "cars" array. Each car object should have the following properties:
6 // - make: "Toyota"
7 // - model: "Camry"
8 // - year: 2018
9 let car1={make:"Toyota",model:"Camry",year:"2018"}
10 let car2={make:"Toyota",model:"Camry",year:"2018"}
11 let car3={make:"Toyota",model:"Camry",year:"2018"}
12 let cars=[car1,car2, car3];
13 //console.log(cars);
14
15 //3. Remove the first car object from the "cars" array.
16 //cars.splice(0,1);
17 //console.log(cars);
18 //4. Add a new car object to the "cars" array with the following properties:
19 // - make: "Honda"
20 // - model: "Civic"
21 // - year: 2020
22 let car={make: "Honda",model: "Civic",year:"2020"}
23 cars.push(car);
24 //console.log(cars);
25 //5. Update the "model" property of the second car object in the array to "Accord".
26 car2.model='Accord'
27 console.log(cars);|
28 //6. Print the final "cars" array after performing the above operations.
29

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Code
[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn3.js"
[
  { make: 'Toyota', model: 'Camry', year: '2018' },
  { make: 'Toyota', model: 'Accord', year: '2018' },
  { make: 'Toyota', model: 'Camry', year: '2018' },
  { make: 'Honda', model: 'Civic', year: '2020' }
]

[Done] exited with code=0 in 0.416 seconds
```

6. Print the final "cars" array after performing the above operations.

```
js.html JS assgn1.js JS assgn2.js JS assgn3.js X
Bootcamp > JavaScript > Day 1 > JS assgn3.js > ...
7   //- model: "Camry"
8   //- year: 2018
9   let car1={make:"Toyota",model:"Camry",year:"2018"}
10  let car2={make:"Toyota",model:"Camry",year:"2018"}
11  let car3={make:"Toyota",model:"Camry",year:"2018"}
12  let cars=[car1,car2, car3];
13  //console.log(cars);
14
15  //3. Remove the first car object from the "cars" array.
16  cars.splice(0,1);
17  //console.log(cars);
18  //4. Add a new car object to the "cars" array with the following properties:
19  // - make: "Honda"
20  // - model: "Civic"
21  // - year: 2020
22  let car={make: "Honda",model: "Civic",year:"2020"}
23  cars.push(car);
24  //console.log(cars);
25  //5. Update the "model" property of the second car object in the array to "Accord".
26  car2.model='Accord'
27  //console.log(cars);
28  //6. Print the final "cars" array after performing the above operations.
29  console.log(cars);|
30
31

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
[Done] exited with code=0 in 0.416 seconds

[Running] node "c:\Users\Reshma RP\Documents\Bootcamp\JavaScript\Day 1\assgn3.js"
[
  { make: 'Toyota', model: 'Accord', year: '2018' },
  { make: 'Toyota', model: 'Camry', year: '2018' },
  { make: 'Honda', model: 'Civic', year: '2020' }
]

[Done] exited with code=0 in 0.471 seconds
```

Remember to use console.log() to print the arrays and objects in the console to see the results of each operation.