Assignment-1

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`index.html`

```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>
   <h1>Hii there!</h1>

   <!-- link script file -->
<script src="./Array.js"></script>
<script src="./Object.js"></script>
<script src="./ArrayOfObject.js"></script>
</body>
</html>
```

Array Operation

1. Create an empty array called "fruit"

```
  let fruits = [] //empty array
  console.log(fruits)//[]
```

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

```
//way-1
fruits.push("apple")
fruits.push("banana")
fruits.push("orange")
```

```
//way-2
//fruits.push("apple","banana","orange")
console.log(fruits); // ["apple","banana","orange"]
```

3. Remove the first fruit from the array

```
fruits.splice(0,1) // splice(index,how many from that index is deleted)
console.log(fruits)//[ 'banana', 'orange' ]
```

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

```
fruits.push("grape")
console.log(fruits) //[ 'banana', 'orange', 'grape' ]
```

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

```
fruits.splice(1,1,"pear"); //splice(index,howmany,what add in that place)
console.log(fruits) //[ 'banana', 'pear', 'grape' ]
```

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

```
console.log(fruits);//[ 'banana', 'pear', 'grape' ]
```

Objects

1.Create an empty object called "person"

```
let person = {} //empty object
console.log(person)//{}
```

2.Add the following property from the "person" object: name : "John", age:30, city:"New York"

```
// way-1
person.name = "John"
person.age=30
person.city= "New York"

//way-2
// person={
//     name:"John",
//     age:30,
//     city:"New York"
// }

console.log(person)//{ name: 'John', age: 30, city: 'New York' }
```

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

```
delete person.age //delete the age property from person
console.log(person) //{ name: 'John', city: 'New York' }
```

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

```
person.job = "Engineer"
console.log(person) //{ name: 'John', city: 'New York', job: 'Engineer' }
```

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

```
person.city = "San Francisco"
console.log(person)//{ name: 'John', city: 'San Francisco', job: 'Engineer'
}
```

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

```
console.log(person) //{ name: 'John', city: 'San Francisco', job: 'Engineer'
}
```

ArrayOfObjects

1. Create a array of an objects.

```
let cars = [] //empty array
console.log(cars) //[]
```

2.Add three car objects to the "cars" array.Each car object should have the following properties: make:"Toyota",model:"Camry",year:2018

```
cars.push({
    make: "Toyota",
    model: "Camry",
    year: 2018
},
{
    make: "Toyota",
    model: "Camry",
    year: 2018
},{
    make: "Toyota",
    model: "Camry",
    year: 2018
}
)

console.log(cars)//[{ make: 'Toyota', model: 'Camry', year: 2018 },{ make:
```

```
'Toyota', model: 'Camry', year: 2018 },{ make: 'Toyota', model: 'Camry',
year: 2018 }]
```

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

```
cars.splice(0,1)//delete the first car object
console.log(cars)//[ { make: 'Toyota', model: 'Camry', year: 2018 },{ make:
'Toyota', model: 'Camry', year: 2018 }]
```

4. Add a new car object to the "cars" array with the following properties: make:"Honda",model:"Civic",year:2020

```
cars.push({
    make:"Honda",
    model:"Civic",
    year:2020
})
console.log(cars)//[{ make: 'Toyota', model: 'Camry', year: 2018 },{ make:
'Toyota', model: 'Camry', year: 2018 },{ make: 'Honda', model: 'Civic',
year: 2020 }]
```

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

```
cars[1].model ="Accord"//update model at 2nd car
console.log(cars)//[ { make: 'Toyota', model: 'Camry', year: 2018 },{ make:
'Toyota', model: 'Accord', year: 2018 },{ make: 'Honda', model: 'Civic',
year: 2020 }]
```

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

```
console.log(cars)//[ { make: 'Toyota', model: 'Camry', year: 2018 },{ make:
'Toyota', model: 'Accord', year: 2018 },{ make: 'Honda', model: 'Civic',
year: 2020 }]
```