

1.solve using for-in loop

var car=

```
{  
  brand:'Toyota',  
  model:'Corolla',  
  Year:2020  
};
```

o/p: brand:TOYOTA

model:COROLLA

Year:2020

Code:

```
var car=  
{  
  brand:"Toyota",  
  model:"Corolla",  
  Year:2020  
};  
for(i in car){  
  x="" + car[i];  
  console.log(`${i}:`,x.toUpperCase())  
}
```

o/p:

brand: TOYOTA

model: COROLLA

Year: 2020

2.var numbers=[1,2,3,4,5];

code:

```
var num=[1,2,3,4,5];  
for(i in num){  
  console.log(`${parseInt(i)+1}-HI`);  
}
```

o/p:

1-HI

2-HI

3-HI

4-HI

5-HI

3.var fruits = ['Apple','Banana','Cherry','Date'];

code:

```
var fruits = ['Apple','Banana','Cherry','Date'];  
for(i in fruits){
```

```
        console.log(` ${i} - ${fruits[i].toUpperCase()} `);
    }
}
```

o/p:

0-APPLE
1-BANANA
2-CHERRY
3-DATE

```
4.var obj = {
  name:'john',
  age:30,
  address:{
    city:'Los Angeles',
    state:'CA'
  }
};
```

code:

```
var obj={
  name:'john',
  age:30,
  address:{
    city:'Los Angeles',
    state:'CA'
  }
};
obj.address["city"]='san francisco'
console.log(obj);
```

o/p:

```
{
  name: 'john',
  age: 30,
  address: { city: 'san francisco', state: 'CA' }
}
```

```
5.var car={
  brand:'Toyota',
  model:'Camry',
  Year:2020
};
```

Code:

```
var car = {
  brand:'Toyota',
  model:'camry',
  year:2020
}
```

```
}  
car.model='corolla'  
car.year=2022;  
console.log(car);
```

o/p:

```
{ brand: 'Toyota', model: 'corolla', year: 2022 }
```

```
6.var recipe={  
  name:'Pasta',  
  Servings:2,  
  ingredients:['noodles','sauce'];  
}
```

Code:

```
var recipe = {  
  name: 'pasta',  
  servings: 2,  
  ingredients: ["noodles", "sauce"]  
}  
  
recipe.ingredients[2] = "cheese";  
console.log(recipe);
```

o/p:

```
{  
  name: 'pasta',  
  servings: 2,  
  ingredients: [ 'noodles', 'sauce', 'cheese' ]  
}
```