1)For the given JSON iterate over all for loops (for, for in, for of, forEach).

**1)The ‘For’ Loop**

The For Loop comes first because of its simplicity and ease of use. It is a very user-friendly kind of loop that runs with a method of using a counter.

The value is first set with an appropriate condition, which is also called ‘initializing a loop’. Next, the terminal or final value is specified. The For Loop makes things really easy when you need to run a set of codes multiple times.

The For Loop is further divided into:**‍**

**1. Using an array**

The following piece of code is a perfect example of how to use a for loop through an array.

var numbers = [ 10, 20, 30, 40, 50]   
for (var i=0; i < numbers.length; i++) {  
   console.log(numbers[i])  
} **‍**

Here, I have used all the numbers in the form of an array, then printed each of them in a console window. In the same way, you can make a loop through an array of strings.

**2. Making a loop through DOM elements**

The For loop can also be used to alter colors. Consider a situation where you want to choose a particular color for all the anchors of your page. In order to do so, use the following piece of code.

var elements = document.querySelectorAll("a");  
for (var i=0; i<elements.length; i++) {  
   elements[i].style.color = "red";  
} **‍**

### 2)The ‘For In’ Loop

Another way of looping is the For In Loop. Unlike the For Loop, this loop won’t be using a counter. So this makes the whole process even more simple and hassle-free. In fact, the For In Loop is essentially a simplified version of the For Loop.

The following are different ways of looping using the For In technique.

#### ****1. Looping through an Object Property****

Here’s an example; you’ve got an object containing some properties and you need to look up each property and the value that it carries. Here’s how you would use the For In Loop to do so:

var person = {  
   fname: "Nick",  
   lname: "Jonas",  
   age: 26  
};   
for (let x in person) {  
   console.log(x + ": "+ person[x])  
}

# 3)for...of

The **for...of statement** creates a loop iterating over [iterable objects](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Iteration_protocols" \l "the_iterable_protocol), including: built-in [String](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String), [Array](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array), array-like objects (e.g., [arguments](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Functions/arguments) or [NodeList](https://developer.mozilla.org/en-US/docs/Web/API/NodeList)), [TypedArray](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/TypedArray), [Map](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Map), [Set](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Set), and user-defined iterables. It invokes a custom iteration hook with statements to be executed for the value of each distinct property of the object.

### ****const array1 = ['a', 'b', 'c'];****

### ****for (const element of array1) {****

### ****console.log(element);****

### ****}****

### ****4)The ForEach() Loop****

This method is used for looping through an array element. Here’s an example of this:

var names = ["jerry", "tom", "pluto", "micky", "mini"];  
names.forEach(function1);  
function function1(currentValue, index) {  
   console.log("Index in array is: "+index + " ::  Value is: "+currentValue);  
} **‍**

2)Write your own resume data in JSON format.

{

    "Basics":{

        "name":"UdayShankhar",

        "label":"Programmer",

        "email":"shankhar87@gmail.com",

        "phone.no":"7299558340",

        "summary":"To secure a challenging position in an organization to expand my learning knowledge and skills also seeking for an   opportunity to fully utilize my training and skills while making a significant contribution to the success of the company.",

        "location":{

            "address":"No.2,9th Main Road,Sasirekhamma Nagar,Kannadasan Nagar,Chennai-600118",

            "city":"Chennai",

        },

        "work":[{

         "name":"Napa's Handlooms",

         "position":"Business Development Associate",

         "start-date":"06-07-2018",

         "end-date":"20-03-2020",

         "summary":"Making cold calls to generateleads.

            Generating product leads from OpenMarket.

            Handling product queries and solving clientissues.

            Monitor and review businessperformance."

        }],

        "work":[{

            "name":"Candid Machines",

            "position":"Trainee Engineer",

            "start-date":"15-09-2020",

            "end-date":"31-08-2021",

            "summary":"Programmable Logic Control Programmer.

            Supervisory and Data AcquisitionEngineer.

            Human Machine InterfaceDesigner.

            CADDDesigner."

        }],

        "education":[{

            "institution":"Jeppiaar Engineering College",

            "url":"https://jeppiaarcollege.org/jeppiaar/",

            "area":"Electronics and Instrumentaion",

            "studyType":"Bachelor's",

            "start-date":"02-07-2014",

            "end-date":"20-08-2018",

            "score":"6.2"

        }],

        "skills":[{

            "name":"Web development",

            "level":"Beginner",

            "keywords":[

                "HTML","CSS","Javascript"

            ]

            }],

            "interests":[{

                "name":"Playing mobile games",

                "Keywords":[

                    "PUBG","Call Of Duty"

                ]

            }]

    }

};