1) For JSON Iterate over all for loops(for, for in, for of, forEach)

for loop:

Code

```
var books = [
    {
        title: "Lord of the Rings",
        year: 1994,
        pages: 3000
    },
    {
        title: "1984",
        year: 1984,
        pages: 2000
    },
    {
        title: "Art of war",
        year: 2000,
        pages: 5000
    }
]
for(let i=0;i<books.length;i++)
{
    console.log(i,books[i]);
}
```

Output
0 { title: 'Lord of the Rings', year: 1994, pages: 3000 }
1 { title: '1984', year: 1984, pages: 2000 }
2 { title: 'Art of war', year: 2000, pages: 5000 }

For in loop

Code

```
var books = [
    {
        title: "Lord of the Rings",
        year: 1994,
        pages: 3000
    },
    {
        title: "1984",
        year: 1984,
```

```
        pages: 2000
    },
    {
        title: "Art of war",
        year: 2000,
        pages: 5000
    }
]
for(let i in books)
{
    console.log(i,books[i]);
}
```

Output
0 { title: 'Lord of the Rings', year: 1994, pages: 3000 }
1 { title: '1984', year: 1984, pages: 2000 }
2 { title: 'Art of war', year: 2000, pages: 5000 }

For of loop

 Code

```
var books = [
    {
        title: "Lord of the Rings",
        year: 1994,
        pages: 3000
    },
    {
        title: "1984",
        year: 1984,
        pages: 2000
    },
    {
        title: "Art of war",
        year: 2000,
        pages: 5000
    }
]
for(let i of books)
{
    console.log(i);
}
```

Output
{ title: 'Lord of the Rings', year: 1994, pages: 3000 }
{ title: '1984', year: 1984, pages: 2000 }
{ title: 'Art of war', year: 2000, pages: 5000 }

forEach

Code
```
var books = [
    {
        title: "Lord of the Rings",
        year: 1994,
        pages: 3000
    },
    {
        title: "1984",
        year: 1984,
        pages: 2000
    },
    {
        title: "Art of war",
        year: 2000,
        pages: 5000
    }
]
books.forEach((u,v) => {
    console.log(v,u);
});
```

Output
0 { title: 'Lord of the Rings', year: 1994, pages: 3000 }
1 { title: '1984', year: 1984, pages: 2000 }
2 { title: 'Art of war', year: 2000, pages: 5000 }

2)resume data in json format

```
var resume = {
    "name" : "Abindra S",
    "designation" : "Associate Technical Engineer",
    "previous organisation" : "IBM India Pvt Ltd",
    "phone":["9487218244"],
    "email id":["abindrasureshkumar@gmail.com"],
    "about" : "Aiming to hone my skills and strive to grow both
professionally and personally in a vibrant organization. Exploring
```

```
multiple ways to solve a problem and work towards perfection through
progressive learning that is mutually beneficial to myself and the
organization.",
    "experience" : [
        {
        "company" : "IBM India Pvt Ltd",
        "from" : "march 2019",
        "to" : "october 2019",
        "domain" : "support tools"
        },
        {
            "company" : "Bharath Sanchar Nigam Limited",
            "from" : "december 2017",
            "to" : "january 2018",
            "domain":"implant trainee in telecom technologies"
        }
    ],
    "skills" : ['c','c++','java','mysql'],
    "certification" : ['c','c++','java'],
    "education" : [
        {
            "degree":"BE CSE",
            "institution":"K.Ramakrishnan College of Engineering",
            "from": 2014,
            "to": 2018
        },
        {
            "degree":"HSC",
            "institution":"Kamala Niketan Montessori School",
            "from":2012,
            "to":2014
        }
    ],
    "soft skills":"Team player, Versatile, Outcome driven, Progressive,
Tennis player",
    "Languages" : [
        {
            "name":"english",
            "read" : true,
            "write" : true,
```

```json
        "speak" : true
    },
    {
        "name" : "tamil",
        "read" : true,
        "write" : true,
        "speak" : true
    },
    {
        "name" : "malayalam",
        "read" : true,
        "write" : false,
        "speak" : false
    }
  ]
}
```