**Task 3**

**Q1.** For given JSON file iterate all loops for ,for in ,for of for each .

**Ans : Code input:**

**const jsonData = [**

**{ name: 'John', age: 30 },**

**{ name: 'Jane', age: 25 },**

**{ name: 'Bob', age: 40 }**

**];**

**// for loop**

**console.log('Using for loop:');**

**for (let i = 0; i < jsonData.length; i++) {**

**console.log(jsonData[i]);**

**}**

**// for...in loop**

**console.log('\nUsing for...in loop:');**

**for (let index in jsonData) {**

**console.log(jsonData[index]);**

**}**

**// for...of loop**

**console.log('\nUsing for...of loop:');**

**for (let element of jsonData) {**

**console.log(element);**

**}**

**// forEach loop**

**console.log('\nUsing forEach loop:');**

**jsonData.forEach((element) => {**

**console.log(element);**

**});**

**Output :**

**Using for loop:**

**{ name: 'John', age: 30 }**

**{ name: 'Jane', age: 25 }**

**{ name: 'Bob', age: 40 }**

**Using for...in loop:**

**{ name: 'John', age: 30 }**

**{ name: 'Jane', age: 25 }**

**{ name: 'Bob', age: 40 }**

**Using for...of loop:**

**{ name: 'John', age: 30 }**

**{ name: 'Jane', age: 25 }**

**{ name: 'Bob', age: 40 }**

**Using forEach loop:**

**{ name: 'John', age: 30 }**

**{ name: 'Jane', age: 25 }**

**{ name: 'Bob', age: 40 }**

**Q2.Create your own resume data in JSON format ?**

**Ans : Input :**

**const resume = {**

**"name": "Tanmay Thawkar",**

**"currentPosition": "Student at MITAOE",**

**"skills": ["C language", "Web development"],**

**"phoneNumber": "9420618148",**

**"experience": "Intern at Exposys",**

**"educationStatus": "3rd year in B.Tech (ENTC)",**

**"hobbies": ["Reading", "Playing", "Cooking"]**

**};**

**const resumeString = JSON.stringify(resume, null, 2); // Convert object to a formatted string**

**console.log(resumeString);**

**Output:**

**{**

**"name": "Tanmay Thawkar",**

**"currentPosition": "Student at MITAOE",**

**"skills": [**

**"C language",**

**"Web development"**

**],**

**"phoneNumber": "9420618148",**

**"experience": "Intern at Exposys",**

**"educationStatus": "3rd year in B.Tech (ENTC)",**

**"hobbies": [**

**"Reading",**

**"Playing",**

**"Cooking"**

**]**

**}**