Task-4

1.Resume in Json Format.

{

"name": "John Doe",

"title": "Software Engineer",

"contact": {

"email": "john.doe@example.com",

"phone": "+1234567890",

"address": "123 Main Street, City, Country"

},

"summary": "Experienced software engineer with a passion for developing scalable web applications.",

"experience": [

{

"title": "Senior Software Engineer",

"company": "Tech Solutions Inc.",

"location": "City, Country",

"dates": "January 2018 - Present",

"responsibilities": [

"Developing and maintaining web applications using JavaScript, HTML, and CSS.",

"Leading a team of developers in agile software development methodologies.",

"Collaborating with product managers and designers to define and implement new features."

]

},

{

"title": "Software Engineer",

"company": "Innovative Software Co.",

"location": "City, Country",

"dates": "June 2015 - December 2017",

"responsibilities": [

"Designed and implemented RESTful APIs for internal and external use.",

"Worked closely with QA engineers to ensure the quality of deliverables.",

"Participated in code reviews and provided constructive feedback to team members."

]

}

],

"education": [

{

"degree": "Bachelor of Science in Computer Science",

"school": "University of Technology",

"location": "City, Country",

"dates": "2011 - 2015"

}

],

"skills": [

"JavaScript",

"HTML",

"CSS",

"React",

"Node.js",

"RESTful APIs",

"Agile Methodologies"

]

}

2.for this json all all for loops(for,for in,for of,for each)

const resumeData = {

"name": "John Doe",

"title": "Software Engineer",

"contact": {

"email": "john.doe@example.com",

"phone": "+1234567890",

"address": "123 Main Street, City, Country"

},

"summary": "Experienced software engineer with a passion for developing scalable web applications.",

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}

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"skills": [

"JavaScript",

"HTML",

"CSS",

"React",

"Node.js",

"RESTful APIs",

"Agile Methodologies"

]

};

// Using for...in loop

console.log("Using for...in loop:");

for (let key in resumeData) {

console.log(key, ":", resumeData[key]);

}

// Using for...of loop (for arrays)

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

for (let experience of resumeData.experience) {

console.log("Experience:", experience.title);

for (let responsibility of experience.responsibilities) {

console.log("- Responsibility:", responsibility);

}

}

// Using forEach loop (for arrays)

console.log("\nUsing forEach loop:");

resumeData.education.forEach(function(education) {

console.log("Education:", education.degree);

});

// Using regular for loop

console.log("\nUsing regular for loop:");

for (let i = 0; i < resumeData.skills.length; i++) {

console.log("Skill:", resumeData.skills[i]);

}

3.differnece between window,screen and object in js

In JavaScript, window, screen, and Object are all fundamental objects, but they serve different purposes:

### **1. window Object:**

* The window object represents the browser window that contains the HTML document.
* It is the global object in client-side JavaScript, providing access to various browser-related functionalities and properties.
* It includes properties such as document, location, history, navigator, localStorage, sessionStorage, etc.
* It also provides methods for controlling the browser window (e.g., resizing, moving), navigating to different URLs, handling events related to the browser window (e.g., onload, onresize), and interacting with the document loaded in the window.

### **2. screen Object:**

* The screen object represents the properties of the screen on which the current window is being rendered.
* It provides information about the user's screen such as width, height, pixel depth, etc.
* It includes properties like screen.width, screen.height, screen.availWidth, screen.availHeight, screen.pixelDepth, screen.colorDepth, etc.
* These properties can be useful for developing responsive web applications or determining the available screen real estate for positioning elements.

### **3. Object Object:**

* The Object object is a built-in JavaScript object that serves as the base for all objects in JavaScript.
* It provides methods for creating and manipulating objects, such as Object.create(), Object.assign(), Object.keys(), Object.values(), etc.
* It is often used as a prototype for creating custom objects or extending built-in objects with additional functionality.
* Every JavaScript object is an instance of the Object object, either directly or indirectly through prototype chaining.