

JSON ASSIGNMENT

```
// A Quik Introduction to JavaScript json
// Problem Statement 01
// Example, we have two company objects inside a JSON array, Learn How to Use JSON with JavaScript
// Show the output:
// 1. We have two company objects inside a JSON array.
// 2. Get a JSON as a string rather than a JSON object.
// 3. Represent the JSON as a string inside JavaScript.
// 4. Inspect the console log in Chrome Developer Tools.
// 5. Convert Json file into the JavaScript file .
// 6. Get the final output of this program.
// Performance Outcomes:
// Upon successful completion of the assignment, the participant is well versed in
// 1. Implement the more futures of to this program.
// 2. User able to fix the debugging errors.
// JSON Array with two company objects

const companies = [
  {
    name: "TechCorp",
    industry: "Technology",
    employees: 200,
  },
  {
    name: "EcoGoods",
    industry: "Retail",
    employees: 50,
  },
];

// 1. Get JSON as a string
const jsonString = JSON.stringify(companies);
console.log("JSON as a String:", jsonString);

// 2. Represent JSON as a string inside JavaScript
const jsonStringRepresentation =
  '[{"name":"TechCorp","industry":"Technology","employees":200},{"name":"EcoGoods","industry":"Retail","employees":50}]';
console.log("JSON String Representation:", jsonStringRepresentation);

// 3. Convert JSON back to a JavaScript object
const jsonObject = JSON.parse(jsonString);
console.log("Converted JSON to JavaScript Object:", jsonObject);
```

Problem-1 OUTPUT:

JSON as a String:

```
[{"name":"TechCorp","industry":"Technology","employees":200},{"name":"EcoGoods","industry":"Retail","employees":50}]
```

JSON String Representation:

```
[{"name":"TechCorp","industry":"Technology","employees":200},{"name":"EcoGoods","industry":"Retail","employees":50}]
```

Converted JSON to JavaScript Object: [

```
{ name: 'TechCorp', industry: 'Technology', employees: 200 },
```

```
{ name: 'EcoGoods', industry: 'Retail', employees: 50 }
```

```
]
```

Problem-2:

```
// Problem Statement 02
// JavaScript: How to construct an array of json objects using map.
// Show the output:
// 1. creates a new array with the results of calling a function on every element in the calling array.
// 2. written as key/ value pairs using Json object.
// 3. JSON object says "orders" with lot of keys like name, description, date, status.
// 4. Convert Json file into the JavaScript file.
// 5. Get the final output of this program.
// Performance Outcomes:
// Upon successful completion of the assignment, the participant is well versed in
// 3. Implement the more futures of to this program.
// 4. User able to fix the debugging errors  A Quik Introduction to JavaScript json

// Input Array
const ordersArray = [
  {
    id: 1,
    name: "Order 1",
    description: "First Order",
    date: "2025-01-13",
    status: "Pending",
  },
  {
    id: 2,
    name: "Order 2",
    description: "Second Order",
    date: "2025-01-12",
    status: "Completed",
  },
];

// 1. Create a new array with additional information
const updatedOrders = ordersArray.map((order) => ({
  ...order,
  priority: order.status === "Pending" ? "High" : "Low",
})));

console.log("Updated Orders with Priority:", updatedOrders);

// 2. Convert the updated orders to JSON string format
const jsonString = JSON.stringify(updatedOrders, null, 2);
console.log("JSON String of Updated Orders:", jsonString);
```

Problem-2 OUTPUT:

Updated Orders with Priority: [

```
{
  id: 1,
  name: 'Order 1',
  description: 'First Order',
  date: '2025-01-13',
  status: 'Pending',
  priority: 'High'
},
{
  id: 2,
  name: 'Order 2',
  description: 'Second Order',
  date: '2025-01-12',
  status: 'Completed',
  priority: 'Low'
}
]
```

JSON String of Updated Orders: [

```
{
  "id": 1,
  "name": "Order 1",
  "description": "First Order",
  "date": "2025-01-13",
  "status": "Pending",
  "priority": "High"
},
{
  "id": 2,
  "name": "Order 2",
  "description": "Second Order",
  "date": "2025-01-12",
  "status": "Completed",
  "priority": "Low"
}
]
```