JavaScript JSON Basic

JSON: **JSON** stands for **"Javascript Object Notation"**. Though in the JSON full form we use javascript notation, we can use JSON format in every programming language.

What is JSON?

JSON is data storing and data interchanging format. JSON format is only a **text** format. Main uses of JSON is retrieve data from server side to web page. We can transfer our data anywhere in JSON format. Javascript JSON is looked like Javascript Object but JSON is not a Javascript Object. There is some syntax difference between them. Remember that, **JSON is a format**. OK?

Difference between Javascript Object and JSON

1. Javascript Object is object type data, where JSON stores its data in the form of String.
2. Both Javascript and JSON is written as name-value pairs. Followed by a colon. In the js object we don't need to use double quote (" ") in the class name or object name. We just use double quote for the values. But In JSON format everything in the format should use double quote(" "). This is the key difference between Javascript Object and JSON. This is how we can easily differ them.
3. JS object is object type that's why we can easily call any object with its index. But in JSON we can't do this. First of all we should make the JSON to object form called parsing and then we call its property via index number. Like this we can also make the Object into JSON format called stringify.
4. Now we will understand the whole topic with example:

   JSON format:
   const text = '{ "student": [' +
   '{ "name": "Zahidul Islam", "address": "Jhawtola, Cumilla"},'+
   '{ "name": "Aftab Hossain", "address": "Kandirpar, Cumilla"},'+
   '{ "name": "Jarin Anan", "address": "Rajgonj, Cumilla"},'+

{ "name": "Riaz Khan", "address": "Chandina, Cumilla"}

  ]}';

JSON to Object:

const obj = JSON.parse(text);

console.log(obj);

Output:

{student: [
{ name: "Zahidul Islam", address: "Jhawtola, Cumilla"},
{ name: "Aftab Hossain", address: "Kandirpar, Cumilla"},
{ name: "Jarin Anan", address: "Rajgonj, Cumilla"},
{ name: "Riaz Khan", address: "Chandina, Cumilla"}

  ]}

Javascript object:

const Person ={

     firstName: "Zahidul",

     lastName: "Islam"

};

Object to JSON:

console.log(JSON.stringify(Person));

Output:

     {"firstName":"Zahidul","lastName":"Islam"}