

JSON

- JSON stands for Javascript Object Notation.
- JSON is a lightweight data interchange format.
- JSON is a language independent and easy to understand.
- JSON is a format for storing and transporting data.
- JSON is used when data is sent from a server to a web page.

JSON Syntax

- Rules :-
- Data is in name / value pairs.
 - Data is separated by commas.
 - Curly braces hold objects.
 - Square brackets hold arrays.

Syntax

{

"first Name" : "value" ;

"last Name" : "value" ;

}

• While working with JSON object in `Js` or `html` file.

* JSON Object

```
var varName =  
  {  
    "First-Name" : "value";  
    "Last-Name" : "value";  
  }
```

* JSON Data

JSON data consists of key/value pairs similar to Javascript object properties.

The key and values are written in double quotes separated by a colon `:`

```
// JSON data  
"name" : "Palvi"
```

* JSON Array JSON array is written inside square brackets `[]`.

For example

```
// JSON array
```

```
["apple", "mango", "banana"]
```

```
// JSON array containing objects
```

```
[
```

```
  { "name" : "Palvi", "age" : 23 },
```

```
  { "name" : "komal", "age" : 24 }  
]
```


* Program to Access JSON Data

We can access JSON data using the dot (.) notation.

```
var data = {  
  "name" : "John",  
  "age" : 22 ;  
  "hobby" : {  
    "reading" : true,  
    "gaming" : false,  
    "sport" : "Football"  
  },  
  "class" : ["JS", "HTML", "CSS"]  
}
```

```
document.write (data.name);  
document.write (data.hobby);  
document.write (data.hobby.sport);  
document.write (data.class[1]);
```

Output

```
John  
{ reading : true, gaming : false, sport : 'football'}  
football  
HTML
```