JS

JSON

JSON stands for JavaScript Object Notation

JSON is a text format for storing and transporting data

Commonly used for API and config files

JSON syntax is derived from JavaScript object notation syntax:

Data is in name/value pairs

Data is separated by commas

Curly braces hold objects

Square brackets hold arrays

```
{
    "name": "vishwajeet kumar",
    "age": 25,
    "lang": ["c", "c++", "java", "php", "python"]
}
```

JSON is language independent

(Code for reading and generating JSON exists in many programming languages.)

Earlier XML was used instead of JSON

Then why JSON

- JSON is faster in term of data parsing
- JSON is cleaner than XML
- JSON is light weight than xml
- Easy to read and write

JSON vs XML

XML

```xml
<empinfo>
   <employees>
     <employee>
        <name>James Kirk</name>
        <age>40></age>
     </employee>
     <employee>
        <name>Jean-Luc Picard</name>
        <age>45</age>
     </employee>
     <employee>
        <name>Wesley Crusher</name>
        <age>27</age>
     </employee>
   </employees>
</empinfo>
```

JSON

```json
{  "empinfo" :
     {
          "employees" :  [
          {
              "name" : "James Kirk",
              "age" : 40,
          },
          {
              "name" : "Jean-Luc Picard",
              "age" : 45,
          },
          {
              "name" : "Wesley Crusher",
              "age" : 27,
          }
                          ]
     }
}
```