Discuss the following about JSON (JavaScript Object Notation). Select **two** of the following topics for your initial post.

* What is JSON?
* What are the advantages and disadvantages?
* How to parse JSON using Java?
* What languages other than Java and JavaScript support JSON?

In software development, there are many languages that are available to create programs that offer developers the chance to experiment with their code. As convenient as different programming languages can be and the capabilities they can offer can be grand, but without a simple way of storing and retrieving data, this could be a pain. According to Jaiswal (2022), one of the most prominent and popular data interchange formats is JSON.

Jaiswal (2022) states that JSON is a "lightweight, text-based, data-interchange format that follows JavaScript object syntax". It is commonly used to communicate data stored on a server to a web page or browser (Jaiswal, 2022)**.** JSON is text-only, so although it is rooted in JavaScript object structure, it does not have to be used with JavaScript in order to work since it is also supported by other languages (Jaiswal, 2022)**.** JSON holds files through either name/value pairs or as an ordered list of values (Jaiswal, 2022)**.**

JSON comes with advantages and disadvantages. A positive aspect of JSON is that the rules are quite simple. JSON format requires that data is in name-value pairs, separated by commas, objects surrounded by curly brackets, and square brackets utilized for the entire array (Jaiswal, 2022)**.** JSON also makes it easier to parse, manipulate, is faster, self-describing, and has better schema support (Jaiswal, 2022)**.** Some of the drawbacks of JSON include no error handling, no comments, less security if interacting with untrusted browsers and services, no data type, and lacks robustness (Jaiswal, 2022)**.**

Here is an example of how JSON format looks (Jaiswal, 2022)**.**

{

“turingemp”:[

{“firstname”: “Michel”, “lastname”: “Stark”},

{“firstname”: “Peter”, “lastname”: “Parker”},

{“firstname”: “David”, “lastname”: “Book”},

{“firstname”: “Pyaare”, “lastname”: “Mohan”}

]

}

**Reference**

Jaiswal, A. (2022, June 24). *JSON: Introduction, Benefits, Applications, and Drawbacks | Turing*. Www.turing.com. https://www.turing.com/kb/what-is-json

**Assignment Requirements and Grading:**

* 1. An initial post of approximately 250 words is due by **Thursday, 11:59 p.m., CST**.
  2. For the initial post to be considered substantive, it should be at least 250 words in length and fully cover the topics being presented. Single sentence definitions or responses will not be awarded points.
  3. Submit your post by clicking on the assignment link above, then Create Thread. You must create a thread in order to view your peers' posts. Tip: Create your post in a Word document and then copy and paste your work into the thread.
  4. A minimum of three (3) responses, to the original threads of other students, of 100-200 words each are due by **Sunday, 11:59 p.m., CST**.
  5. To view the rubric grading criteria, click on the following link: [Discussion Board Grading Rubric](https://content.bellevue.edu/cst/csd/rubricdbv3.pdf).