| **JSON** | **XML** |
| --- | --- |
| It is JavaScript Object Notation | It is [Extensible markup language](https://www.geeksforgeeks.org/xml-basics/) |
| It is based on JavaScript language. | It is derived from [SGML](https://www.geeksforgeeks.org/what-is-sgml/). |
| It is a way of representing objects. | It is a markup language and uses tag structure to represent data items. |
| It does not provides any support for namespaces. | It supports [namespaces](https://www.geeksforgeeks.org/javascript-namespace/). |
| It supports array. | It doesn’t supports [array](https://www.geeksforgeeks.org/array-data-structure/). |
| Its files are very easy to read as compared to XML. | Its documents are comparatively difficult to read and interpret. |
| It doesn’t use end tag. | It has start and end tags. |
| It is less secured. | It is more secured than JSON. |
| It doesn’t supports comments. | It supports comments. |
| It supports only [UTF-8 encoding](https://www.geeksforgeeks.org/understanding-character-encoding/). | It supports various encoding. |

**DIFFERENCE BETWEEN JSON AND XML**

**DIFFERENCE BETWEEN AUTHORIZATION AND AUTHENTICATION**

|  |  |
| --- | --- |
| **Authentication** | **Authorization** |
| Authentication is the process of identifying a user to provide access to a system. | Authorization is the process of giving permission to access the resources. |
| In this, the user or client and server are verified. | In this, it is verified that if the user is allowed through the defined policies and rules. |
| It is usually performed before the authorization. | It is usually done once the user is successfully authenticated. |
| It requires the login details of the user, such as user name & password, etc. | It requires the user's privilege or security level. |
| Data is provided through the Token Ids. | Data is provided through the access tokens. |
| **Example:** Entering Login details is necessary for the employees to authenticate themselves to access the organizational emails or software. | **Example:** After employees successfully authenticate themselves, they can access and work on certain functions only as per their roles and profiles. |
| Authentication credentials can be partially changed by the user as per the requirement. | Authorization permissions cannot be changed by the user. The permissions are given to a user by the owner/manager of the system, and he can only change it. |