

XML stands for eXtensible Markup Language

XML has user defined tags in it.

XML can be used to transfer data from one programming language to another.

for example xml written inside a java project can be used in a Python project.

Following is the code for an xml tag manager which has a tag employee under it.

and employee tag has further tags in it like

employeeid

employeename

employeedesignation

employeesalary

Following is the code for a simple xml file which has a parent tag as manager and two tags under it as employee

Write this code in sample.xml and open it in a browser and you will see the following output.

```
<manager>
```

```
<employee>
```

```
<employeeid>1</employeeid>
```

```
<employeename>Raman</employeename>
```

```
<employeedesignation>Software Engineer</employeedesignation>
```

```
<employeesalary>100000</employeesalary>
```

```
</employee>
```

```
<employee>
```

```
<employeeid>2</employeeid>
```

```
<employeename>Aman</employeename>
```

```
<employeedesignation>Associate Software Engineer</employeedesignation>
```

```
<employeesalary>80000</employeesalary>
```

```
</employee>
```

```
</manager>
```

Output

```
<manager>
  <employee>
    <employeeid>1</employeeid>
    <employeeename>Raman</employeeename>
    <employeeedesignation>Software Engineer</employeeedesignation>
    <employeesalary>100000</employeesalary>
  </employee>
  <employee>
    <employeeid>2</employeeid>
    <employeeename>Aman</employeeename>
    <employeeedesignation>Associate Software Engineer</employeeedesignation>
    <employeesalary>80000</employeesalary>
  </employee>
</manager>
```

Now another notation is JSON Notation

JSON stands for Javascript Object Notation.

JSON file is also used for the same purpose as XML.

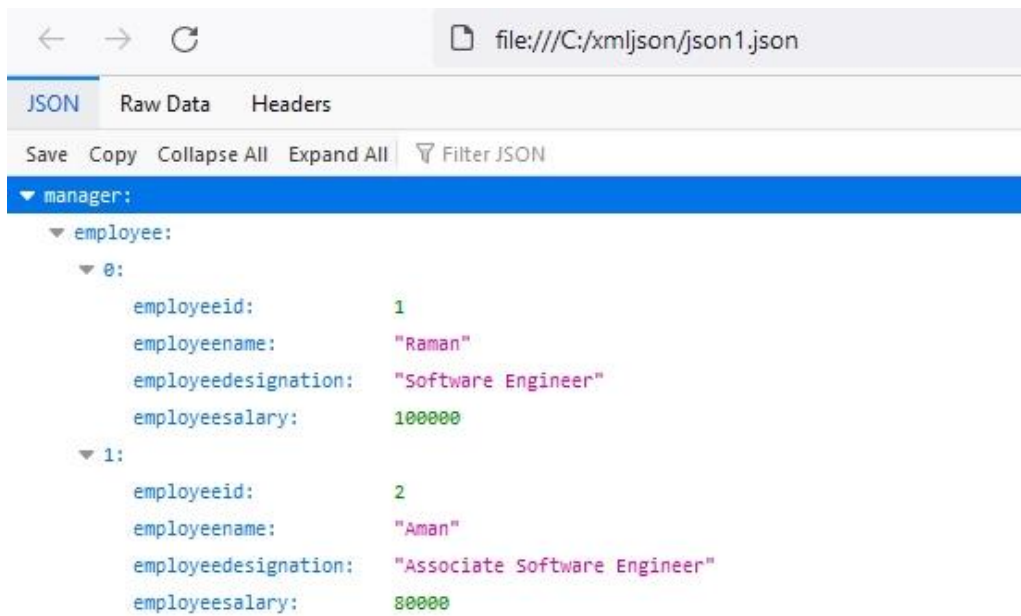
Here is the json code corresponding to above XML File

```
{
  "manager": {
    "employee": [
      {
        "employeeid": 1,
        "employeeename": "Raman",
        "employeeedesignation": "Software Engineer",
        "employeesalary": 100000
      },
      {
        "employeeid": 2,
        "employeeename": "Aman",
        "employeeedesignation": "Associate Software Engineer",
        "employeesalary": 80000
      }
    ]
  }
}
```

Write the above code in notepad and save it as json1.json file

Open json1.json file in firefox or Microsoft Edge

You will see the following output in firefox



You can convert xml to json and vice versa through online websites.

One such website is

[XML to JSON Converter Online to convert XML to JSON String, URL and File \(codebeautify.org\)](https://codebeautify.org/XML-to-JSON-Converter)