

## ▼ JSON data in Python

### JSON stands for JavaScript Object Notation

- Popular data format used for representing structured data
- Common format while transmitting and receiving data between a server and web application

In python, JSON exists as a string or file containing JSON object

```
#To work with JSON import json module
```

```
import json
```

```
import pandas as pd
```

```
#JSON exists as a string
```

```
p='{"name":"Ram","contact":[9123412345,7123471234]}'
```

```
d=json.loads(p)
```

```
print(d)
```

```
print(type(d))
```

```
{'name': 'Ram', 'contact': [9123412345, 7123471234]}
<class 'dict'>
```

```
#To read a file containing json object
```

```
f=open("/content/fruit.json","r+")
```

```
data=json.load(f)
```

```
print(data)
```

```
print(type(data))
```

```
{'fruit': 'Apple', 'size': 'Large', 'color': 'Red'}
<class 'dict'>
```

```
import pandas as pd
```

```
df2 = pd.DataFrame.from_dict(data, orient="index")
```

```
print(df2)
```

```
      0
fruit  Apple
size   Large
color   Red
```

```
#To read a file containing json object
```

```
f=open("/content/sampleddata.json","r+")
```

```
data=json.load(f)
```

```
print(data)
```

```
print(type(data))
```

```
df=pd.DataFrame(data)
```

```
df
```



```
import pandas as pd

data1 = {'Product': ['Computer', 'Printer', 'Monitor', 'Tablet', 'Keyboard'],
        'Price': [1200, 200, 500, 350, 80]}

df = pd.DataFrame(data1)
print(df)

df.to_json('/content/export_dataframe.json')
```

Show hidden output

```
import pandas as pd

data = {'Product': ['Computer', 'Printer', 'Monitor', 'Tablet', 'Keyboard'],
        'Price': [1200, 200, 500, 350, 80]}

df = pd.DataFrame(data)

df.to_json('/content/export_dataframe.json', orient='split')
```