JSON in Python

Convertir de JSON a Python

In [10]:
```python
import json
# some JSON:
x ='[{"name":"John", "age":30, "city":"New York"}, \
    {"name":"Sara", "age":20, "city":"LA"}, \
    {"name":"Paul", "age":48, "city":"Buenos Aires"}]'

# Convertir cadena JSON a diccionario:
y = json.loads(x)

# the result is a Python dictionary:
print(y)
print()

for p in y:
    print(p["name"], p["city"])


print()
print(type(y))
```

```
[{'name': 'John', 'age': 30, 'city': 'New York'}, {'name': 'Sara', 'age': 20, 'city': 'LA'}, {'name': 'Paul', 'age': 48, 'cit
y': 'Buenos Aires'}]

John New York
Sara LA
Paul Buenos Aires

<class 'list'>
```

Convertir de Python a JSON

In [7]:
```python
import json

# a Python object (dict):
x = {"name":"John","age":30,"city":"New York"}

# convert into JSON:
y = json.dumps(x)

y = json.dumps(y, indent=4, sort_keys=True)
# the result is a JSON string:
print(y)

type(y)


```

```
"{\"name\": \"John\", \"age\": 30, \"city\": \"New York\"}"
```

Out[7]:
```
str
```

In [12]:
```python
import json

print(json.dumps({"name":"John","age":30}))
print(json.dumps(["apple","bananas"]))
print(json.dumps(("apple","bananas")))
print(json.dumps("hello"))
print(json.dumps(42))
print(json.dumps(31.76))
print(json.dumps(True))
print(json.dumps(False))
print(json.dumps(None))
```

```
{"name": "John", "age": 30}
["apple", "bananas"]
["apple", "bananas"]
"hello"
42
31.76
true
false
null
```

In [5]:

```
import json
x = {
"name":"John",
"age":30,
"married":True,
"divorced":False,
"children":("Ann","Billy"),
"pets":None,
"cars":[{"model":"BMW 230", "mpg":27.5},
{"model":"Ford Edge", "mpg":24.1}]
}

print(json.dumps(x, indent=1))
```

```
{
 "name": "John",
 "age": 30,
 "married": true,
 "divorced": false,
 "children": [
  "Ann",
  "Billy"
 ],
 "pets": null,
 "cars": [
  {
   "model": "BMW 230",
   "mpg": 27.5
  },
  {
   "model": "Ford Edge",
   "mpg": 24.1
  }
 ]
}
```

In [29]:

```
import requests
import json
import pandas as pd

response = requests.get('https://gorest.co.in/public/v2/users')

print(response.json())
print()

f = open("./dat/users_active.csv", "w", encoding="UTF-8")

for data in response.json():
    if data['status'] == 'active':
        txt = "{:5} {:25} {}\n".format(data['id'], data['name'], data['status'])
        print(txt)
        txt = "{};{};{};\n".format(data['id'], data['name'], data['status'])
        f.write(txt)
f.close()

```

```
[{'id': 3715, 'name': 'Sunita Trivedi', 'email': 'sunita_trivedi@lowe.io', 'gender': 'female', 'status': 'inactive'}, {'id': 37
14, 'name': 'Adityanandan Adiga', 'email': 'adityanandan_adiga@damore.org', 'gender': 'male', 'status': 'active'}, {'id': 3713,
'name': 'Ambar Bhattathiri', 'email': 'ambar_bhattathiri@reinger-reilly.com', 'gender': 'female', 'status': 'active'}, {'id': 3
712, 'name': 'Bhardwaj Dwivedi DC', 'email': 'dwivedi_bhardwaj_dc@ullrich.net', 'gender': 'female', 'status': 'active'}, {'id':
3711, 'name': 'Kannen Deshpande', 'email': 'kannen_deshpande@baumbach-hyatt.org', 'gender': 'female', 'status': 'active'}, {'i
d': 3710, 'name': 'Gotum Namboothiri', 'email': 'gotum_namboothiri@kuphal.co', 'gender': 'female', 'status': 'inactive'}, {'i
d': 3709, 'name': 'Chandni Pandey', 'email': 'chandni_pandey@frami.info', 'gender': 'female', 'status': 'inactive'}, {'id': 370
8, 'name': 'Agnimitra Kocchar', 'email': 'kocchar_agnimitra@strosin.co', 'gender': 'male', 'status': 'active'}, {'id': 3707, 'n
ame': 'Somnath Chattopadhyay', 'email': 'chattopadhyay_somnath@hoppe.net', 'gender': 'female', 'status': 'inactive'}, {'id': 37
06, 'name': 'Ms. Adwitiya Dhawan', 'email': 'dhawan_adwitiya_ms@yost.name', 'gender': 'male', 'status': 'active'}]

 3714 Adityanandan Adiga        active

 3713 Ambar Bhattathiri         active

 3712 Bhardwaj Dwivedi DC       active

 3711 Kannen Deshpande          active

 3708 Agnimitra Kocchar         active

 3706 Ms. Adwitiya Dhawan       active
```

PRACTICA P01. Leerjson

In [32]:

```
import json
import requests

response = requests.get('https://jsonplaceholder.typicode.com/todos')

# print(response.json())

print()
for data in response.json():
    print(data['id'], data['title'])
```

```
1 delectus aut autem
2 quis ut nam facilis et officia qui
3 fugiat veniam minus
4 et porro tempora
5 laboriosam mollitia et enim quasi adipisci quia provident illum
6 qui ullam ratione quibusdam voluptatem quia omnis
7 illo expedita consequatur quia in
8 quo adipisci enim quam ut ab
9 molestiae perspiciatis ipsa
10 illo est ratione doloremque quia maiores aut
11 vero rerum temporibus dolor
12 ipsa repellendus fugit nisi
13 et doloremque nulla
14 repellendus sunt dolores architecto voluptatum
15 ab voluptatum amet voluptas
16 accusamus eos facilis sint et aut voluptatem
17 quo laboriosam deleniti aut qui
18 dolorum est consequatur ea mollitia in culpa
```