

Day 12- Python JSON

- Python has a built-in package called json, which can be used to work with JSON data

Import json

- If you have a JSON string, you can parse it by using the json.loads() method

```
In [1]: import json
# some JSON:
x = '{ "name":"Sachin", "age":18, "city":"Mumbai"}'
# parse x:
y = json.loads(x)
# the result is a Python dictionary:
print(y["age"])
```

18

- If you have a Python object, you can convert it into a JSON string by using the json.dumps() method.

```
In [2]: import json
# a Python object (dict):
x = {
    "name": "John",
    "age": 30,
    "city": "New York"
}

# convert into JSON:
y = json.dumps(x)
# the result is a JSON string:
print(y)
```

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

- You can convert Python objects of the following types, into JSON strings:

- o dict
- o list
- o tuple
- o string
- o int
- o float
- o True
- o False
- o None
- o Use the indent parameter to define the numbers of indents

- You can also define the separators, default value is (" ", ": "), which means using a comma and a space to separate each object, and a colon and a space to separate keys from values
- `json.dumps(x, indent=4, separators=(". ", " = "))`
- The `json.dumps()` method has parameters to order the keys in the result
- `json.dumps(x, indent=4, sort_keys=True)`

Exercise:

```
In [1]: import json
dict1 = {'name': "Rahul", 'age': '18', 'city': "Delhi"}
list1 = ['a', 'b', 'c', 'd', 'e']
tuple1 = (1, 2, 'Apple', 3)
string1 = "Sunny Day"
int1 = 2
float1 = 5.66
True1 = True
False1 = False
None1 = None
```

```
dict2 = json.dumps(dict1)
list2 = json.dumps(list1)
tuple2 = json.dumps(tuple1)
string2 = json.dumps(string1)
int2 = json.dumps(int1)
float2 = json.dumps(float1)
True2 = json.dumps(True1)
False2 = json.dumps(False1)
None2 = json.dumps(None1)
```

```
print(dict2)
print(list2)
print(tuple2)
print(string2)
print(int2)
print(float2)
print(True2)
print(False2)
print(None2)
```

```
{"name": "Rahul", "age": "18", "city": "Delhi"}
["a", "b", "c", "d", "e"]
[1, 2, "Apple", 3]
"Sunny Day"
2
5.66
true
false
null
```

Completed Day 12's notes & exercises

THANK YOU!

Check out My Repository at https://github.com/AakankshaJarode/BestEnlist_Python_Internship.git
(https://github.com/AakankshaJarode/BestEnlist_Python_Internship.git)

Check out My LinkedIn Page at <https://www.linkedin.com/in/aakanksha-jarode-1b0195179>
(<https://www.linkedin.com/in/aakanksha-jarode-1b0195179>)