

JSON Practice:

Convert JSON String to Dictionary Python

```
jsonPython.py > ...
1
2 import json
3
4 jsonstring = '{"id":121,"name":"Pooja","course":"DE"}'
5 stuinfo = json.loads(jsonstring)
6 print(stuinfo)
7 print(stuinfo['id'])
8
9 '''

[Running] python -u "c:\Users\shree\Downloads\Python Assignments
DE\jsonPython.py"
{'id': 121, 'name': 'Pooja', 'course': 'DE'}
121

[Done] exited with code=0 in 0.272 seconds
```

JSON FILE:

```
data.json > [ ] employee > { } 0
1
2 {
3   "employee": [
4     {
5       "id": "01",
6       "name": "Amit",
7       "department": "Sales"
8     },
9     {
10      "id": "04",
11      "name": "sunil",
12      "department": "HR"
13    }
14  ]
15 }
16
```

Convert JSON File to Python Object

```
9
10 import json
11
12 with open('data.json') as Jsonfile:
13     data = json.load(Jsonfile)
14     print("Type:" ,type(data))
15     print(data)
16
17 '''

[Running] python -u "c:\Users\shree\Downloads\Python Assignments
DE\jsonPython.py"
Type: <class 'dict'>
{'employee': [{'id': '01', 'name': 'Amit', 'department': 'Sales'},
{'id': '04', 'name': 'sunil', 'department': 'HR'}]}

[Done] exited with code=0 in 0.198 seconds
```

Convert Nested JSON Object to Dictionary

```
17 '''
18 import json
19 # Opening JSON file
20 with open('data.json') as json_file:
21     data = json.load(json_file)
22     # for reading nested data [0] represents
23     # the index value of the list
24     print(data['employee'][0])
25     # for printing the key-value pair of
26     # nested dictionary for loop can be used
27     print("\nPrinting nested dictionary as a key-value pair\n")
28     for i in data['employee']:
29         print("Name:", i['name'])
30         print("Dept:", i['department'])
31     print()
32 '''
```

PROBLEMS OUTPUT ... Filter Code ▾ ☰ 🔒 ...

[Running] python -u "c:\Users\shree\Downloads\Python Assignments DE\jsonPython.py"

{'id': '01', 'name': 'Amit', 'department': 'Sales'}

Printing nested dictionary as a key-value pair

Name: Amit
Dept: Sales

Name: sunil
Dept: HR

Convert JSON String to Dictionary in Python

```
33 '''
34 import json
35 f = open('data.json',)
36 # returns JSON object as
37 # a dictionary
38 data = json.load(f)
39 # Iterating through the json
40 # list
41 for i in data['employee']:
42     print(i)
43 # Closing file
44 f.close()
45 '''
46 import json
```

PROBLEMS OUTPUT ... Code ▾ ☰ 🔒 ...

Filter

[Running] python -u "c:\Users\shree\Downloads\Python Assignments DE\jsonPython.py"

{'id': '01', 'name': 'Amit', 'department': 'Sales'}

{'id': '04', 'name': 'sunil', 'department': 'HR'}

[Done] exited with code=0 in 0.283 seconds

Convert Python Dict to JSON

```
64 # Python program to convert
65 # Python to JSON
66 import json
67
68 # Data to be written
69 dictionary = {
70     "id": "04",
71     "name": "sunil",
72     "department": "HR"
73 }
74
75 # Serializing json
76 json_object = json.dumps(dictionary, indent = 4)
77 print(json_object)
```

OUTPUT ... Filter Code

[Running] python -u "c:\Users\shree\Downloads\Python DE\jsonPython.py"

```
{
    "id": "04",
    "name": "sunil",
    "department": "HR"
}
```

[Done] exited with code=0 in 0.233 seconds

Writing JSON to a file in Python

```
79 # Python program to write JSON
80 # to a file
81 import json
82
83 # Data to be written
84 dictionary = {
85     "name" : "sathiyajith",
86     "rollno" : 56,
87     "cgpa" : 8.6,
88     "phonenumner" : "9976770500"
89 }
90
91 with open("sample.json", "w") as outfile:
92     json.dump(dictionary, outfile)
```

OUTPUT ... Filter Code

[Running] python -u "c:\Users\shree\Downloads\Python DE\jsonPython.py"

[Done] exited with code=0 in 0.216 seconds