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Rollno:DE142

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```
{
"Courses": [
{

"Name" : "Java Foundation",
"Created by" : "Teju",
"Content" : [ "Java Core", "JSP",
"Servlets", "Collections" ]

},
{
"Name" : "Data Structures",
"also known as" : "Interview Preparation Course",
"Topics" : [ "Trees", "Graphs", "Maps" ]
}
]
}
```

```
{'Courses': [{'Name': 'Java Foundation',
   'Created by': 'Teju',
   'Content': ['Java Core', 'JSP', 'Servlets', 'Collections']},
  {'Name': 'Data Structures',
   'also known as': 'Interview Preparation Course',
   'Topics': ['Trees', 'Graphs', 'Maps']}]}
```

```
# Import JSON module
import json

# Define JSON string
jsonString = '{ "id": 121, "name": "Teju", "course": "MERN Stack"}'

# Convert JSON String to Python
student_details = json.loads(jsonString)

# Print Dictionary
print(student_details)

# Print values using keys
print(student_details['name'])
print(student_details['course'])
```

```
{'id': 121, 'name': 'Teju', 'course': 'MERN Stack'}
Teju
MERN Stack
```

```
import json

# JSON string
json_string = '{"Name": "Teju", "age": 23, "Course": "DSA"}'

# Convert JSON string to dictionary
json_dict = json.loads(json_string)

print(json_dict)
```

```
{'Name': 'Teju', 'age': 23, 'Course': 'DSA'}
```

```
import json

# JSON string
employee ='{"id":"09", "name": "Teju", "department":"Finance"}'

# Convert string to Python dict
employee_dict = json.loads(employee)
print(employee_dict)

print(employee_dict['name'])
```

```
{'id': '09', 'name': 'Teju', 'department': 'Finance'}
Teju
```

```
import json

# Opening JSON file
# Specify the correct path to your JSON file if it's not in the same directory
# For example:
# file_path = '/path/to/your/data.json'
# f = open(file_path, 'r')
try:
    # If data.json is in the same directory, the following line should work:
    f = open('data.json', 'r')  # 'r' for read mode

    # returns JSON object as a dictionary
    data = json.load(f)

    # Iterating through the json list
    for i in data['emp_details']:
        print(i)

    # Closing file
    f.close()
except FileNotFoundError:
    print("Error: File 'data.json' not found. Please ensure the file exists and the path is correct.")
```

```
Error: File 'data.json' not found. Please ensure the file exists and the path is correct.
```

```
# Python program to convert
# Python to JSON
import json

# Data to be written
dictionary = {
"id": "04",
"name": "Teju",
"department": "HR"
}

# Serializing json
json_object = json.dumps(dictionary, indent = 4)
print(json_object)
```

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

```
# Python program to write JSON
# to a file
import json

# Data to be written
dictionary ={
"name" : "sathiyajith",
"rollno" : 56,
"cgpa" : 8.6,
"phonenumber" : "9976770500"
}

with open("sample.json", "w") as outfile:
    # This line should be indented to be part of the 'with' block
    json.dump(dictionary, outfile)
```

```
# Python program to convert JSON to Python
import json

# JSON string
employee ='{"id":"09", "name": "Teju", "department":"Finance"}'

# Convert string to Python dict
employee_dict = json.loads(employee)
```

```
# Pretty Printing JSON string back
print(json.dumps(employee_dict, indent = 4, sort_keys= True))
```

```
{
    "department": "Finance",
    "id": "09",
    "name": "Teju"
}
```