Day 15: Python Libraries

This is #90DaysofDevops challenge under the guidance of Shubham Londhe sir.

Day 15 TASK

check this for task:

https://github.com/LondheShubham153/90DaysOfDevOps/blob/master/2023/day15/tasks.md

Reading JSON and YAML in Python

- As a DevOps Engineer you should be able to parse files, be it txt, json, yaml, etc.
- You should know what all libraries one should use in Python for DevOps.
- Python has numerous libraries like `os`, `sys`, `json`, `yaml` etc that a DevOps Engineer uses in day to day tasks.

Tasks

1. **Create a Dictionary in Python and write it to a json File.**

JSON stands for JavaScript Object Notation. It means that a script (executable) file which is made of text in a programming language, is used to store and transfer the data.

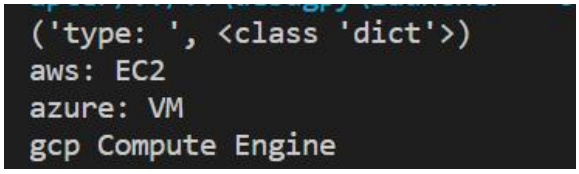
Function Used:

- json.dumps()
- json.dump()

Here we will be using **json.dumps()**

2. Read a json file `services.json` kept in this folder and print the service names of every cloud service provider.

```
output
aws : ec2
azure : VM
gcp : compute engine
```



output

3. Read YAML file using python, file `services.yaml` and read the contents to convert yaml to json

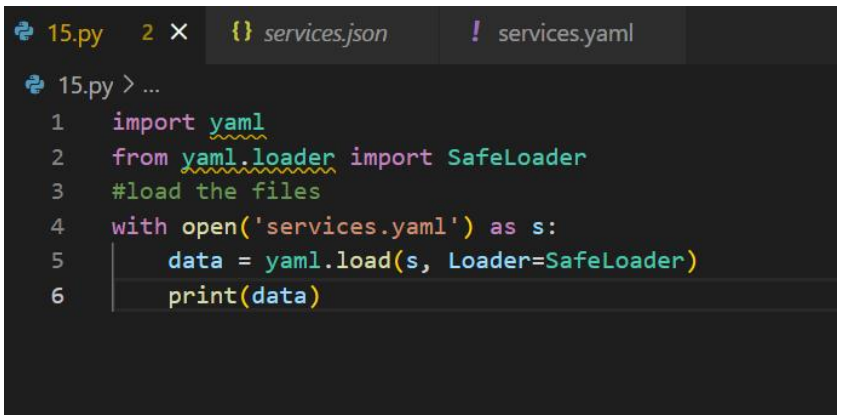
PyYAML is a YAML parser and emitter for Python.

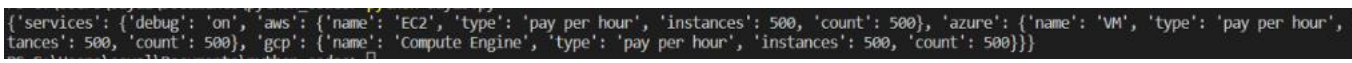
To install pyYAML module use command.

We need to use PyYAML module's `yaml.load()` function. This function parses and converts a YAML object to a Python dictionary (`dict` object).

This process is known as Deserializing YAML into a Python.

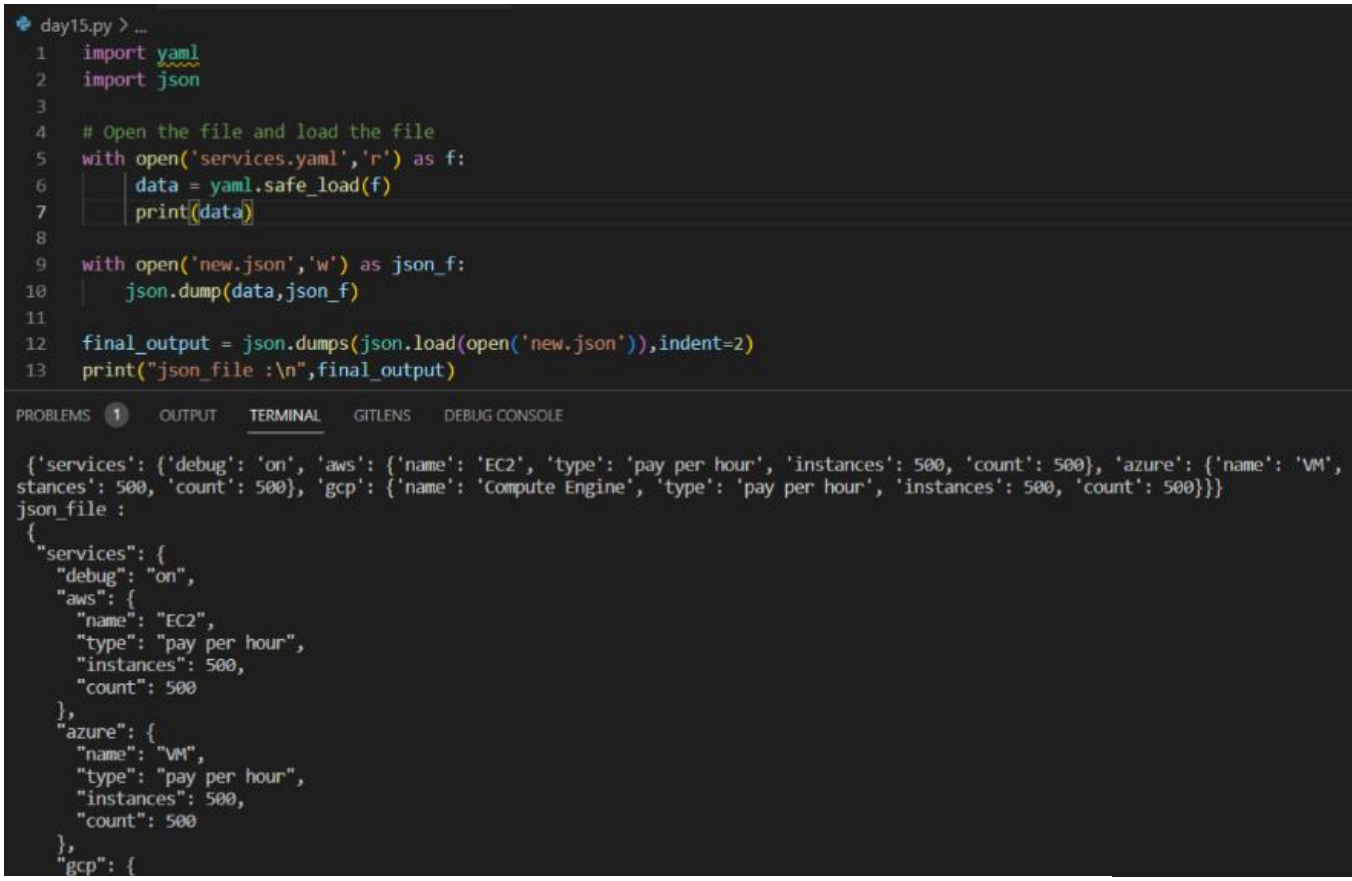
```
#pip install pyYAML
```





output

json.dumps() function will convert a subset of Python objects into a json string.



Please, feel free to drop any questions in the comments below. I would be happy to answer them.

If this post was helpful, please do follow and click the clap

_Thank you for reading

_Rajani