JSON and serialization

`JSON` - `Javascript Object Notation`

- `JSON` is a format

- `JSON` format is popularly used in modern applications for data exchange.

- Because of syntax similarity Javascript can easily convert json data into Javascript object

- Similarly, in Python has syntactically similar data objects called `dict` and `json` object can easily be loaded in `dict` object in Python.

`import json`

- Converting `dict` into `json` string representation

- We are serializing a `dict` object into `json` object in following example -

```
>>> import json
>>> foo = ["prashant", "29", "engineer"]
>>> json.dumps(foo)
```

- Converting `json` string representation into `dict` object

- We are de-serializing `json` object into `dict` object in following example -

```
>>> import json
>>> json.loads(foo)  # `foo` from previous example
```

Serialization

- `Serialization` is general computing concept.

- `Serialization` is the process of converting data into format suitable by another system.

De-Serialization

- vice versa of `Serialization`

- The reverse process is called `de-serialization`

Popular modules in python that help you in (de) Serialization

- json

- xml

- pickle

- yaml

- hdf5