**JSON Knowledge In Crash Course Summary Format**

* JSON stands for JavaScript Object Notation.
* JSON is a data representation format. Data can be strings, numbers, Booleans, arrays or lists, null, and objects. The format is {"key":"value"}; e.g. {"age":30}. Curly brackets hold objects or unordered collection of key and value pairs which can be multi-tiered. Square brackets hold arrays or ordered lists. Keys must be a string.
  + {
  + "name": "Raymond",
  + "favoritenumber": 40,
  + "isprogrammerboolean": true,
  + "hobbiesarray": ["gym","board games","Harry Potter"],
  + "friendsmoreuserobjectsnesting": [{
  + "name": "Edward",
  + "favoritenumber": 310,
  + "isprogrammerboolean": false,
  + "hobbiesarray": ["alchemy","read","travel"]
  + }]
  + }
  + [
  + {
  + "name": "Big Corporation",
  + "numberofemployees": 10000,
  + "ceo": "Mary",
  + "rating": 3.6
  + },
  + {
  + "name": "Small Startup",
  + "numberofemployees": 3,
  + "ceo": null,
  + "rating": 4.3
  + }]
  + example = {"firstname":"John", "lastname":"Smith", "age":25, "address":{"streetaddress":"21 2nd Street", "city":"New York", "state":"NY", "zip":"10021"}, "phonenumber":[{"type":"home", "number":"212 555-1234"}, {"type":"fax","number":"646 555-4567"}]}
* true, false, and null are lower case. null is used instead of None.
* Multiple JSON objects in a dictionary format must be inside a list format.

**JSON Functions**

**json.load(filename)** Load a JSON. It becomes a dictionary by default.

**json.loads(json string format)** Load a JSON as a string or JSON is a string format. It becomes a dictionary by default.

**json.dump(json, filename, ensure\_ascii=False)** Write JSON to a file filename.

**json.dumps(json, indent=n, sort\_keys=True, ensure\_ascii=False)** Convert to string. ensure\_ascii=False converts to true text.