1. What does an empty dictionary's code look like?

dict = {}

type(dict)

2. What is the value of a dictionary value with the key 'foo' and the value 42?

{'foo':42}

3. What is the most significant distinction between a dictionary and a list?

Dictionaries are represented by {} where as listed are represented by []

The Items stored in a dictionary are Unordered , while the items in a list are ordered

4. What happens if you try to access spam['foo'] if spam is {'bar': 100}?

spam = {'bar':100}

spam['foo']

#This will give us key error

KeyError: 'foo'

5. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.keys()?

spam ={'cat':100}

'cat' in spam #output: True

'cat' in spam.keys() #output: True

#There is no differnce, both check if 'cat' is key of the dictionary and if its a key, returns True.

6. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.values()?

'cat' in spam checks whether there is a 'cat' key in the dictionary

'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

spam.setdefault('color','black')

8. How do you "pretty print" dictionary values using which module and function?

dct = [ {'Name': 'Shiva', 'Age': '23', 'Country': 'India'},

{'Name': 'Anna', 'Age': '44', 'Country': 'China'},

{'Name': 'Joe', 'Age': '29', 'Country': 'UK'},

{'Name': 'Chumlee', 'Age': '35', 'Country': 'USA'}

]

# by using pprint() function of pprint module

import pprint

pprint.pprint(dct)

#Printing with print()

print(dct\_arr)

# by using dumps() method of json module

import json

dump = json.dumps(dct, indent=4)

print('Printing using dumps() method\n', dump)

# by using dumps() method of yaml module

import yaml

dump = yaml.dump(dct)

print('Printing using dump() method\n', dump)