Assignment 5

1. What does an empty dictionary code look like?

Ans: An empty dictionary is often represented by two empty curly brackets d = {} or d = dict()

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

Ans: {'foo':42}

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

Ans: Dictionaries are represented by {} where as listed are represented by []. Items in dictionary are in key value pair while list can store value as it is. The Items stored in a dictionary are Unordered, earlier in python version 3.6, however, it is ordered as of version 3.7, while the items in a list are ordered.

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

Ans: we will get a keyError 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()?

Ans: There is no difference . The operator checks whether a value exits as a key in the dictionary or no

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

Ans:'cat' in spam checks whether there is a 'cat' key in the dictionary, while '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'

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

8. How do you 'pretty print' dictionary values using which modules and function?

In Python, we can use the pprint module to "pretty print" dictionary values. The pprint module provides a pprint() function that formats the output in a more readable and organized way

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In [30]:
         ndict = {
           0:{'Name': 'John', 'Age': '23', 'Residence': {'Country':'USA', 'City': 'New York'}}
           1:{'Name': 'Jose', 'Age': '44', 'Residence': {'Country':'India', 'City': 'Banglore'}}
         print('Print using print function \n', ndict)
         print('-'* 25 ,'\n')
         import pprint
         print('Printing using pprint() funciton')
         pprint.pprint(ndict)
         Print using print function
         {0: {'Name': 'John', 'Age': '23', 'Residence': {'Country': 'USA', 'City': 'New York'}}, 1: {'Name': 'Jose', 'Age': '44', 'Residence': {'Country': 'India', 'City': 'Banglore'}}}
         Printing using pprint() funciton
         {0: {'Age': '23',
'Name': 'John'
               'Residence': {'City': 'New York', 'Country': 'USA'}},
          1: {'Age': '44',
                'Name': 'Jose'
               'Residence': {'City': 'Banglore', 'Country': 'India'}}}
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