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

Ans: {}

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

Ans: {'foo': 42}

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

Ans: dictionary follows hashed structure of keys and values, list refers to collection of various types of elements like an array.

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

Ans: **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: ‘cat’ in spam may be an index value of a dictionary. ‘cat’ in spam.keys() is one of the key in spam dictionary.

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 may be an index value of a dictionary. ‘cat’ in spam.values() is one of the value in spam dictionary.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans:

spam['color'] = 'black'

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

Ans:

Module: import pprint

Function: pprint(dict)

Ex:

import pprint

sample\_dict = {'name': 'Nik', 'age': 31, 'gender': 'male', 'books': ['Harry Potter', 'Lord of the Rings']}

pprint.pprint(sample\_dict)