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

A. {}, dict()

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

A. {'foo':42}

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

A. dictionaries use custom key, value storage and elements can be directly accessed using the custom key whereas list have default sequential keys starting from 0 and only values can be stored and can be accessed using index value.

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

A. It will raise a KeyError

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

A. It gives the same output

eg:

spam = {"cat":"an animal"}

print('cat' in spam) #o/p: True

or

print('cat' in spam.keys()) #o/p: True

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

A. It gives False output for 'cat' in spam.values() as the 'cat' is key in spam. It gives True for 'cat' in spam.

eg:

spam = {"cat":"an animal"}

print('cat' in spam.values()) #o/p: True

or

print('cat' in spam) #o/p: True

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

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

A. pprint module is used.

eg:

import pprint

pprint.pprint(my\_dict);