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

Ans:- An empty dictionary’s code can be written in following ways:-

1. empty\_dictionary = {}
2. By using dict() function as  
   empty\_dictionary = dict()

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

Ans:- {‘foo’ : 42} is the value of a dictionary value with the key 'foo' and the value 42.

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

Ans:- The most significant distinction between a dictionary and list is that a dictionary contains values in the form of a key:value pair where every key is unique whereas the data in a list contains of just values. Also, a list is ordered whereas a dictionary is unordered.

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

Ans:- It will throw a KeyError as key ‘foo’ is not available in the current dictionary.

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 as both expressions will check whether ‘cat’ key is present in the dictionary spam or not.

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

Ans:- Expression ‘cat’ in spam will check whether ‘cat’ key is present in the spam dictionar or not whereas expression ‘cat’ in spam.values() will check whether the value ‘cat’ is present in the dictionary or not.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans:- We can use the setdefault method to set the given key value if the same is not present in the dictionary. e.g:

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

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

Ans:- pprint() function of the module pprint are used to pretty print dictionary values. e.g:-

import pprint # import the pprint module  
spam = {"laptop":{"price":10000,"brand":'lenovo'}, "Mobile":{"qty":100}}  
pprint.pprint(spam)