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

Ans: empty dictionary:- {}

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: The elements in list have ordered index while in dictionary elements are indexed using keys which are of different data types.

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

Ans: we will get key error.

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

Ans: Both are same, both are used to check whether key 'cat' is present in 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: 'cat' in spam will check for key while spam.values() will check value of 'cat'.

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 module and function?

Ans: module is pprint

     functions are pprint.pprint()and pprint.pformat().