1. What does an empty dictionary's code look like?  
Ans: To create an empty dictionary, the dictionary should be set equal to {} or dict().   
 Examples:  
 >>> d1 = {}  
 >>> d2 = dict()

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 items in a list are ordered items, while the items in a dictionary are unordered.

4. What happens if you try to access spam['foo'] if spam is {'bar': 100}?  
Ans: We will get a KeyError 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: There is no difference. The in operator checks whether a value exists as a key in the dictionary.  
 Example:  
 >>> spam = {'cat':100}  
 >>> 'cat' in spam  
 True  
 >>> 'cat' in spam.keys()  
 True

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 exists a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there exists 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 module and function?

Ans: pprint.pprint()