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

Answer 1: d = {}

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

Answer 2: d = {‘foo’ : 42}; value = 42

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

Answer 3: Dictionary has key:value pairs. List just has values.

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

Answer 4: KeyError: ‘foo’ as there is no ‘key’ called ‘foo’.

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

Answer 5: 'cat' in spam checks whether there is a 'cat' key in the dictionary, and 'cat' in spam.keys() checks whether there is a key 'cat' in the dictionary. So, there is no difference.

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

Answer 6: 'cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is 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'

Answer 7: spam.setdefault('color', 'black')

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

Answer 8: pprint() module and spam.values() function can be used to pretty print dictionary values.