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

**Answer:** d = {}

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

**Answer:** { ‘foo’ : 42 }

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

**Answer:**

In python list is a collection of index, value pair. Whereas Dictionary is a collection of key, value pairs.

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

**Answer:** The programs will give 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()?

**Answer:** There is no difference. The in operator cheeks whether a value exists as a key in the dictionary.

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

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

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

**Answer:**

The module is pprint.

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