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

* dict = {}

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

* {‘foo’: 42} ; value is 42

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

* list notation [], holds collection of heterogeneous values i.e int, float, string, list, tuple etc
* dictionary notation {}, holds dataset as key : value pairs; keys are unique and values can be duplicated

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

* gets the **KeyError**: 'foo' i.e key doesn’t exist

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

* both gives true if ‘cat’ key exist in spam dictionary

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

* if ‘cat’ key exist in spam dictionary, ‘cat’ in spam gives True and ‘cat’ in spam.values() gives False

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black' indent is missing here

short cut: spam['color'] = 'black'. if ‘color’ key exist in spam, value would be replaced with new one.

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

* pprint ()