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

{}

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

{'foo': 42}

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

The items stored in a dictionary are unordered, while the items in a list are ordered. items in dictionaries are accessed via keys and items in list are accessed via index position.

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

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()?

there is no difference. the in operator checks 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()?

the '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' in the dictionary.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

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

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

use pprint. i.e i have a dictionary that stored in variable called d

import pprint

d = {'string' : ['a', 'b', 'c'],

'integer' : (1,2,3),

'boolean' : {True, False}}

pprint.pprint(d)