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

a={}

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

42

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

Lists is ordered collection of objects. Dictionary in Python on the other hand is an unordered collection of data values

List is created by placing elements in [ ] seperated by commas ", "   Dictionary is created by placing elements in { } as "key":"value", each key value pair is seperated by commas ","

The indices of list are integers starting from 0. The keys of dictionary can be of any data type.

The elements are accessed via indices. The elements are accessed via key-values.

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

KeyError: 'foo'

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

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()?

 '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'

spam['color'] = 'black'

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

pprint.pprint()