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?

**Dictionary - Unordered items. Has KEY-VALUE pairs**

**List - Ordered items. Has Index Value Pairs**

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

**KeyError** Traceback (most recent call last)

**<ipython-input-290-53b1913caf9e>** in <module>

1 spam **={'bar':** **100}**

**----> 2** spam**['foo']**

**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. Same operation.

Checks whether ‘cat’ 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()?

expressions 'cat' - Checks whether there is a 'cat' key in the dictionary

 'cat' in spam.values() - 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.setdefault('color', 'black')

'black'

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

pprint.pprint()