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

>> variable\_name = {}

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?

>> dictionary stores data in key-value pairs, while a list stores data in a linear order.

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

>> It will encounter 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()?

>> Both expression check that the 'cat' named key is present in spam.

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

>> expression check that the 'cat' named key is present in spam. While 'cat' in spam.values() check that which values is stored in cat key, ' assuming there is a key named cat'.

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?