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 } , 'foo' is the key and 42 is the value.

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

> Elements in a dictionary are present in key-value pair and are unordered.
> Elements in a list are ordered.

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

> KeyError will occur.

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

> The in operator checks whether 'cat' exists as a key in the dictionary.
> No difference in both expressions.

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

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

> pprint.pprint()