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

Two curly brackets:- {}.

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 dictionary is ordered and the list is unordered.

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

It will throw an error message.

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 and the in operator will check whether the value is available in the dictionary or not.

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

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

pprint.pprint().