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 component is accessed by it key, not via its position, and unordered, while list a ordered collection, and is accessed by its index.

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

If the key is not in a dictionary, it will throw a Key Error.

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

They are the same.

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

One checks if ‘cat’ is one of the spam’s keys, while the other checks if ‘cat’ is one of spam’s values.

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?

Module: pprint

Function: pprint()