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

Ans: By using empty braces ‘{}’ eg:

My\_empty\_dict = {}

2. What is the value of a dictionary value with the key 'foo' and the value 42?

Ans: my\_dict = {“foo”:42}

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

Ans: List is ordered with items separated by commas while dictionary is unordered and icontains key and value pairs.

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

Ans: We will get KeyError exception

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

Ans: There is no differnce, both check if 'cat' is key of the dictionary and if its a key, returns True.

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

Ans: '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

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans: spam.setdefault('color', 'black')

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

Ans: The pprint module in Python is a utility module that you can use to print data structures in a readable.

import pprint

spam = {'cat': 100}

if 'dog' not in spam:

spam['dog'] = 200

print(spam)

spam.setdefault('hen', 30)

print(spam)

pprint.pprint(spam)