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?

42

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

In the list we can store any data-types values and can retrieve based on the list indices.

Whereas in dictionary data will be stored in the form of key and value pairs and also the values will be retrieved based on the keys.

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

Will get 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()?

There is no difference as both will give the output as True(if cat present in keys) and check whether ‘cat’ string is present keys.

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

Here the cat in spam will check the cat is present in keys or not, whereas in 2nd statement it will check in the dictionary values whether the cat is present or not.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

spam{‘color’:’black’}

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

With dictionary.values() with this we can print the dictionary values

E.g:

d = {‘a’:1}

d.values()