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

Ans: EmptyDict = {}

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

Ans: {‘foo’:42}

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

Ans: dictionary requires a key and value pair, where as list has no such things. i.e every key in a dictionary is assigned certain value, however every element in a list is independent w.r.t other elements.

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

Ans: Error : “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()?

Ans:

* ‘cat’ in spam: refers to the key ‘cat in spam, but if called with a proper syntax, then the output will not be ‘cat’, but will be the value of the key ‘cat’.
* ‘cat’ in spam.keys(): it refers to the key cat in the list of keys in the spam() dictionary.

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: refers to the key ‘cat in spam, but if called with a proper syntax, then the output will not be ‘cat’, but will be the value of the key ‘cat’.
* ‘cat’ in spam.values(): it refers to the value ‘cat’, if there is any, in the list of values in the spam() dictionary.

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?

from pprint import pprint  
pprint(dictionary)