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

Answer: { }

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

Answer: value = {‘foo’ : 42}

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

Answer: In dictionary data is stored as a key, value pair whereas in a list data is stored as a collection of multiple items/values.

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

Answer: it will give 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()?

Answer: There is no difference between these two expressions except the syntax as in both instances it will look for ‘cat’ in the Keys of the dictionary ‘spam’. If ‘cat’ is present as any keys in spam then it will give True or else it will give False.

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

Answer: The difference in both is in expressions ‘cat’ in spam it will look for ‘cat’ in the keys in spam, whereas in the statement 'cat' in spam.values() it will look for ‘cat’ in the values inside the dictionary.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Answer: spam['color'] = 'black'

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

Answer: Let’s consider spam as the dictionary then:

Import pprint

pprint.pprint(spam)