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

Ans: Emtpy dictionary can be declared as dict() or {}

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

Ans: Dictionary would look like: {‘foo’:42}

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

Ans: In dictionary the values are hashed in the form of a key i.e. any value can only be accessed with the key and values don’t have any positional significance but in a list, the values have positional importance and any value can be accessed with the index of the same.

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

Ans: Python would throw an exception if we try to access a value whose key doesn’t exist in the dictionary.

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

Ans: Both the statements 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 returns True but ‘cat’ in spam.values() returns False.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans: we can use setdefault method of dictionary which inserts a default value to a dictionary if the key is not present in the dictionary.

For example if we write spam.setdefault(‘color’,’black’) then a value of ‘black’ would be assigned against the key ‘color’ only if the key ‘color’ is not already present in the dictionary.

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

Ans. For pretty printing a dictionary value, we use the pprint module and pprint function.

For pretty printing a dictionary we write pprint.pprint(dictionary)