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

Ans. {}

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

Ans. Value = {‘foo’: 42}

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

Ans. In dictionary we update values in key and value payer format, but in list we update list of values in it

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

Ans. This statement will show Key Error, because in spam dictionary there is no key with name as ‘foo’

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 will be no difference eighter we use ‘cat’ in spam or ‘cat’ in spam.keys(), because by default ‘cat’ in spam will search for keys of t dictionaries only.

* If we have a dictionary with key as ‘cat’ both the statement will get 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. They are totaly different, As mentioned in Answer of 5th question by default it try to serach for keys only. So ‘cat’ in spam value will be True but ‘cat’ in spam.values() will be false.

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 module is pprint.

The functions are pprint.pprint() and pprint.pformat().