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

Ans.

a = {}

or

a = dict()

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

Ans. {‘foo’ : 42}

42

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

Ans.Dictionary contains values with keys while list contains values with indexes.

Both are mutable or changeable.

In dictionary values are accessed using keys while in lists using indexes.

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

Ans. There is no key names ‘foo’ in dictionary so it will throw 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. spam[‘cat’] will return value of ‘cat’ key in the dictionary.

spam.keys() will return all the keys in the 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, spam[‘cat’] will return value of ‘cat’ key in the dictionary.

spam.value() will return all the values in the dictionary.

**7. What is a shortcut for the following code?**

**if 'color' not in spam:**

**spam['color'] = 'black'**

Ans.

if spam.keys != 'color': spam['color'] = 'black'

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

Ans.

Module : pprint

function : PrettyPrinter